

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 24, 2004, 11:15:34 ; Search time 66 Seconds  
(without alignments)  
4624.591 Million cell updates/sec

Title: US-09-017-715A-1

Perfect score: 550

Sequence: 1 CACGAGCCACCATGATGTTT.....TGGCCTGTCACCTGTGCTG 550

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 segs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Issued Patents NA: \*  
1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq: \*  
2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq: \*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq: \*  
5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq: \*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq: \*

Pred. NO. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description          |
|------------|-------|-------------|--------|-------|----------------------|
| 1          | 550   | 100.0       | 550    | 3     | US-08-705-771-1      |
| 2          | 550   | 100.0       | 550    | 4     | US-09-417-540-1      |
| 3          | 435   | 79.1        | 786    | 5     | PCT-US95-08295-1     |
| 4          | 144   | 26.2        | 1560   | 5     | PCT-US94-09789-1     |
| 5          | 89.2  | 16.2        | 419    | 4     | US-09-621-976-609    |
| 6          | 83.2  | 15.1        | 7218   | 1     | US-08-232-463-14     |
| 7          | 58.8  | 10.7        | 1926   | 4     | US-09-249-585A-4     |
| 8          | 58.8  | 10.7        | 1931   | 2     | US-09-130-114-2      |
| 9          | 50.4  | 9.2         | 124884 | 4     | US-09-661-596A-76    |
| 10         | 50.4  | 9.2         | 124884 | 4     | US-09-913-514-1      |
| 11         | 50    | 9.1         | 306    | 4     | US-09-913-514-1      |
| 12         | 48.2  | 8.8         | 2233   | 1     | US-08-145-705A-1     |
| 13         | 45.8  | 8.3         | 1296   | 4     | US-09-252-991A-10463 |
| 14         | 45.8  | 8.3         | 2106   | 4     | US-09-252-991A-10369 |
| 15         | 45    | 8.2         | 2481   | 4     | US-09-894-998A-35    |
| 16         | 44    | 8.0         | 771    | 4     | US-09-252-991A-7963  |
| 17         | 44    | 8.0         | 1431   | 4     | US-09-252-991A-7821  |
| 18         | 44    | 8.0         | 1686   | 4     | US-09-252-991A-7516  |
| 19         | 44    | 8.0         | 2046   | 4     | US-09-252-991A-7588  |
| 20         | 44    | 8.0         | 2277   | 1     | US-08-676-967-5      |
| 21         | 44    | 8.0         | 2277   | 1     | US-08-676-974-5      |
| 22         | 44    | 8.0         | 2277   | 2     | US-09-098-487-5      |
| 23         | 43.6  | 7.9         | 1505   | 1     | US-07-915-246-1      |
| 24         | 43    | 7.8         | 324    | 4     | US-09-547-693-234    |
| 25         | 43    | 7.8         | 1974   | 4     | US-09-252-991A-10787 |
| 26         | 43    | 7.8         | 125157 | 4     | US-09-913-514-2      |
| 27         | 42.8  | 7.8         | 1320   | 2     | US-08-461-775-8      |

|    |      |     |       |   |                   |                   |
|----|------|-----|-------|---|-------------------|-------------------|
| 28 | 42.8 | 7.8 | 1320  | 3 | US-09-031-606-8   | Sequence 8, Appli |
| 29 | 42.8 | 7.8 | 1620  | 2 | US-08-461-775-10  | Sequence 10, Appl |
| 30 | 42.8 | 7.8 | 1620  | 3 | US-09-031-606-10  | Sequence 10, Appl |
| 31 | 42.8 | 7.8 | 2167  | 2 | US-08-461-775-9   | Sequence 9, Appli |
| 32 | 42.8 | 7.8 | 2167  | 3 | US-09-031-606-9   | Sequence 9, Appli |
| 33 | 42.8 | 7.8 | 2668  | 2 | US-08-461-775-11  | Sequence 11, Appl |
| 34 | 42.8 | 7.8 | 2668  | 3 | US-09-031-606-11  | Sequence 11, Appl |
| 35 | 42.8 | 7.8 | 3489  | 2 | US-08-728-323A-1  | Sequence 1, Appli |
| 36 | 42.8 | 7.8 | 3489  | 4 | US-09-298-568-1   | Sequence 1, Appli |
| 37 | 42.8 | 7.8 | 3489  | 4 | US-09-410-399-1   | Sequence 20, Appl |
| 38 | 42.8 | 7.8 | 32207 | 2 | US-08-770-379-20  | Sequence 20, Appl |
| 39 | 42.8 | 7.8 | 32207 | 3 | US-08-757-669A-20 | Sequence 20, Appl |
| 40 | 42.8 | 7.8 | 33207 | 4 | US-09-230-371A-20 | Sequence 20, Appl |
| 41 | 42.2 | 7.7 | 2040  | 2 | US-08-533-669A-5  | Sequence 5, Appli |
| 42 | 42.2 | 7.7 | 2040  | 4 | US-09-183-861-5   | Sequence 5, Appli |
| 43 | 42.2 | 7.7 | 2040  | 4 | US-09-022-765-5   | Sequence 5, Appli |
| 44 | 42.2 | 7.7 | 2040  | 4 | US-09-551-974A-5  | Sequence 5, Appli |
| 45 | 42.2 | 7.7 | 2040  | 4 | US-09-565-501A-5  | Sequence 5, Appli |

#### ALIGNMENTS

RESULT 1  
US-08-705-771-1  
Sequence 1, Application US/08705771  
Patent No. 6054289  
GENERAL INFORMATION:  
APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,  
APPLICANT: Jian Ni and Jing-Shan Hu  
TITLE OF INVENTION: Human Genes, Sequences and  
TITLE OF INVENTION: Expression Products  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08705,771  
FILING DATE: August 30, 1996  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: MULINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-346 (PFI96)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 973-994-1740  
TELEFAX: 973-994-1744  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 550 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-705-771-1  
Query Match 100.0%; Score 550; DB 3; Length 550;  
Best Local Similarity 100.0%; Pred. No. 6,7e-127;  
Matches 550; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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1 CACGAGCCACCATGATGTTTCAAGAGGAGGCTTCATGCCAAGAGGCGGTGCG 60

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        61 GTGCGGTGAAAAAGACCAAGAGGGGGTGAACGAGACAGCTGAGAAAGACCAAGAGGGGG 120
        61 GTGCGGTGAAAAAGACCAAGAGGGGGTGAACGAGACAGCTGAGAAAGACCAAGAGGGGG 120
        121 TCATGTATGTGGAGCCCAAGACCAAGAGAAATGTTGTACAGAGCGGTGACCTGATGTCGG 180
        121 TCATGTATGTGGAGCCCAAGACCAAGAGAAATGTTGTACAGAGCGGTGACCTGATGTCGG 180
        181 AGAAGACCAAGAGAGCAGGCAACGCGGTGAGCAAGGCTGTGTGACAGCGTCAACACTG 240
        181 AGAAGACCAAGAGAGCAGGCAACGCGGTGAGCAAGGCTGTGTGACAGCGTCAACACTG 240
        241 TGGCCCAACCAAGACCGTGAAGAGAGCGGAGAAATCTGCGGTCACTCCGGGGTGTGTCGA 300
        241 TGGCCCAACCAAGACCGTGAAGAGAGCGGAGAAATCTGCGGTCACTCCGGGGTGTGTCGA 300
        301 AGAAGACCTTGAAGGCACTGCGCCGCCCAACAGAGAGGGTGAAGCATCAAGAGAAAGAG 360
        301 AGAAGACCTTGAAGGCACTGCGCCGCCCAACAGAGAGGGTGAAGCATCAAGAGAAAGAG 360
        361 AAGTGCAGAGAGAGGCGCCAGAGTGGGGAGACTAGAGGCTACAGGCCAGCGTGAATGAC 420
        361 AAGTGCAGAGAGAGGCGCCAGAGTGGGGAGACTAGAGGCTACAGGCCAGCGTGAATGAC 420
        421 CTGAAGAGGCTCTCTGCTTGTGACACCATCCCTCTTACGACCAAGAGAGTGGCGGCTT 480
        421 CTGAAGAGGCTCTCTGCTTGTGACACCATCCCTCTTACGACCAAGAGAGTGGCGGCTT 480
        481 GAGTGACATGCGGGGTGCCACGCTCTGCGCTGTCTCTCTGACACACCTTGGCTGTGC 540
        481 GAGTGACATGCGGGGTGCCACGCTCTGCGCTGTCTCTCTGACACACCTTGGCTGTGC 540
        541 ACCTGTGCTG 550
        541 ACCTGTGCTG 550
    
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RESULT 2  
 US-09-417-540-1  
 Sequence 1, Application US/09417540  
 Patent No. 6639052  
 GENERAL INFORMATION:  
 APPLICANT: Paul Moore, Reiner Genz, Hongjin Ji,  
 Jia N1 and Jing-Shan Hu  
 TITLE OF INVENTION: Human Genes, Sequences and  
 Expression Products  
 NUMBER OF SEQUENCES: 22  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: CECCHI, STEWART & OLSTEIN,  
 STREET: 6 BECKER FARM ROAD  
 CITY: ROSELAND  
 STATE: NEW JERSEY  
 COUNTRY: USA  
 ZIP: 07068  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5 INCH DISKETTE  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: MS-DOS  
 SOFTWARE: WORD PERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/417, 540  
 FILING DATE: 14-Oct-1999  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/705,771  
 FILING DATE: August 30, 1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: MULLINS, J.G.  
 REGISTRATION NUMBER: 33,073  
 REFERENCE/DOCKET NUMBER: 325800-346 (PFI96)  
 TELECOMMUNICATION INFORMATION:

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        TELEPHONE: 973-994-1700
        TELEFAX: 973-994-1744
        INFORMATION FOR SEQ ID NO: 1:
        SEQUENCE CHARACTERISTICS:
        LENGTH: 550 base pairs
        TYPE: nucleic acid
        STRANDEDNESS: single
        TOPOLOGY: linear
        MOLECULE TYPE: DNA
        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
    
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US-09-417-540-1

Query Match 100.0%; Score 550; DB 4; Length 550;  
 Best Local Similarity 100.0%; Pred. No. 6,7e-127;  
 Matches 550; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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        1 CACGAGCCACCATGATGTTTCAAGAAAGGCTTCTCATGCCCAGAAAGGCGTGTGG 60
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        61 GTGCGGTGAAAAAGACCAAGAGGGGGTGAACGAGACAGCTGAGAAAGACCAAGAGGGGG 120
        61 GTGCGGTGAAAAAGACCAAGAGGGGGTGAACGAGACAGCTGAGAAAGACCAAGAGGGGG 120
        121 TCATGTATGTGGAGCCCAAGACCAAGAGAAATGTTGTACAGAGCGTGAACCTTGAATGTC 180
        121 TCATGTATGTGGAGCCCAAGACCAAGAGAAATGTTGTACAGAGCGTGAACCTTGAATGTC 180
        181 AGAAGACCAAGAGAGCAGGCAACGCGGTGAGCAAGGCTGTGTGACAGCGTCAACACTG 240
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        301 AGAAGACCTTGAAGGCACTGCGCCGCCCAACAGAGAGGGTGAAGCATCAAGAGAAAGAG 360
        361 AAGTGCAGAGAGAGGCGCCAGAGTGGGGAGACTAGAGGCTACAGGCCAGCGTGAATGAC 420
        361 AAGTGCAGAGAGAGGCGCCAGAGTGGGGAGACTAGAGGCTACAGGCCAGCGTGAATGAC 420
        421 CTGAAGAGGCTCTCTGCTTGTGACACCATCCCTCTTACGACCAAGAGAGTGGCGGCTT 480
        421 CTGAAGAGGCTCTCTGCTTGTGACACCATCCCTCTTACGACCAAGAGAGTGGCGGCTT 480
        481 GAGTGACATGCGGGGTGCCACGCTCTGCGCTGTCTCTCTGACACACCTTGGCTGTGC 540
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        541 ACCTGTGCTG 550
    
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RESULT 3  
 PCT-US95-08295-1  
 Sequence 1, Application PCT/US9508295  
 GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: BREAST SPECIFIC GENES AND PROTEINS  
 NUMBER OF SEQUENCES: 30  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/08295  
 FILING DATE: 30-JUN-1995  
 CLASSIFICATION:

INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 786 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 PCT-US95-08295-1

Query Match 79.1%; Score 435; DB 5; Length 786;  
 Best Local Similarity 89.9%; Pred. No. 1.8e-98;  
 Matches 501; Conservative 27; Mismatches 17; Indels 12; Gaps 6;

QY 5 AGCCACCATGATGTTTAAAGAGGCTTCCATCCGCAAGAGGGGTGGTGC 64  
 DB 88 ACCACCATGATGTTTAAAGAGGCTTCCATCCGCAAGAGGGGTGGTGC 147  
 QY 65 GGTGAAAAAGACCAAGAGGAGTGAAGAGAGCTGAGAGCAAGAGAGGGGTCTAT 124  
 DB 148 GGTGAAAAAGACCAAGAGGAGTGAAGAGAGCTGAGAGCAAGAGAGGGGTCTAT 207  
 QY 125 GTATGTGGAGCCAAAGCAAGAGAGATG---TGTACAGAGCTGACCTGAGTGC 180  
 DB 208 GTATGTGGAGCCAAAGCAAGAGATGTTGTATGTACAGAGCTGACCTGAGTGC 267  
 QY 181 AGAAGACCAAGAGAGAGCCCAAGCTGAGAGAGCTGTGTAGAGAGCTGACACTG 240  
 DB 268 AGAAGACCAAGAGAGAGCCCAAGCTGAGAGAGCTGTGTAGAGAGCTGACACTG 327  
 QY 241 TGGCACCACCAAGAGAGAGAGAGAGAGATGCGCGGTGACCTCCGGGTGTGGCGCA 300  
 DB 328 TGGCACCACCAAGAGAGAGAGAGAGAGATGCGCGGTGACCTCCGGGTGTGGCGCA 387  
 QY 301 AGAGAGACTTGAAGCCATGTCCTCCCAAGAGAGAGAGATGCAAGAGAA-AGAG 359  
 DB 388 AGAGAGACTTGAAGCCATGTCCTCCCAAGAGAGAGAGATGCAAGAGAA-AGAG 446  
 QY 360 GAAGTGGCAG 419  
 DB 447 SAAG 506  
 QY 420 CCTGAAG 478  
 DB 507 CCTGAAG 566  
 QY 479 TTGAGT---ACATGCGAGTGGCCCAAGCTCTGCTCTGCT---CCCTGAGACCTTGG 533  
 DB 567 TTGAGTGGAG 626  
 QY 534 CCTGTCCACTGTGCTG 550  
 DB 627 CCTGTCCACTGTGCTG 643

RESULT 4  
 PCT-US94-09789-1

Sequence 1, Application PC/TUS9409789  
 GENERAL INFORMATION:  
 APPLICANT: The Regents of the University of California  
 TITLE OF INVENTION: NOVEL COMPONENT OF AMYLOID IN  
 TITLE OF INVENTION: ALZHEIMER'S DISEASE AND METHODS FOR USE OF SAME  
 NUMBER OF SEQUENCES: 12  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Spensley Horn Jubas & Lubitz  
 STREET: 1880 Century Park East - Suite 500  
 CITY: Los Angeles  
 STATE: California  
 COUNTRY: USA  
 ZIP: 90067  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US94/09789  
 FILING DATE: 29-AUG-1994  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Howell, Stacy L.  
 REGISTRATION NUMBER: 34,842  
 REFERENCE/DOCKET NUMBER: FD-3520  
 TELEPHONE: (619) 455-5100  
 TELEFAX: (619) 455-5110  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1560 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 IMMEDIATE SOURCE:  
 CLONE: cDNA for NACP  
 FEATURE:  
 NAME/KEY: misc RNA  
 LOCATION: 1..1560  
 PCT-US94-09789-1

Query Match 26.2%; Score 144; DB 5; Length 1560;  
 Best Local Similarity 67.1%; Pred. No. 1.4e-26;  
 Matches 204; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

QY 10 CCATGATGTTTCAAGAGAGGCTTCCATCCGCAAGAGGGGTGGTGGGAGG 69  
 DB 51 CCATGATGTTTCAAGAGAGGCTTCCATCCGCAAGAGGGGTGGTGGGAGG 110  
 QY 70 AAAAGACCAAG 129  
 DB 111 AAAAGACCAAG 170  
 QY 130 TGGAGCCCAAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 189  
 DB 171 TGGAGCCCAAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 230  
 QY 190 AGAGACCAAGCAAG 249  
 DB 221 AAGACCAAGTGAAGATGTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 290  
 QY 250 AGACCGTGAAG 309  
 DB 291 AGACAGTGAAG 350  
 QY 310 TTAG 313  
 DB 351 TTAG 354

RESULT 5

US-09-621-976-609  
 Sequence 609, Application US/09621976  
 Patent No. 6639063  
 GENERAL INFORMATION:  
 APPLICANT: Dumas Milne Edwards, J.B.  
 APPLICANT: Jober, S.  
 APPLICANT: Giordano, J.Y.  
 TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
 FILE REFERENCE: GENSET.054PR2  
 CURRENT APPLICATION NUMBER: US/09/621,976  
 CURRENT FILING DATE: 2000-07-21  
 NUMBER OF SEQ ID NOS: 19335  
 SOFTWARE: Patent.pm  
 SEQ ID NO 609  
 LENGTH: 419  
 TYPE: DNA  
 ORGANISM: Homo sapiens

FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 256..417  
 NAME/KEY: misc\_feature  
 LOCATION: 100  
 OTHER INFORMATION: n=a, 9, c or t  
 US-09-621-976-609

Query Match 16.2%; Score 89.2; DB 4; Length 419;  
 Best Local Similarity 79.1%; Pred. No. 3.3e-13;  
 Matches 106; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

QY 6 GCCACATGATGTTTCAAGAGGGCTTCATGCGCAAGAGGGCGTGGGGCG 65  
 DB 250 GCCAGATGACGTGTTCAATGAGGCTCTGTCATGCGCAAGAGGGCGTGGGGCG 309  
 QY 66 GTGAAAAGACCAAGCAGGGGGTGCAGAGCAGCTGAGAGACCAAGAGGGGGTCATG 125  
 DB 310 GCGGAGAAAACCAAGCAGGGGGTGCAGAGGCGCGGAGAAAGACCAAGAGGGGGTCTC 369  
 QY 126 TATGTGGAGCCAA 139  
 DB 370 TACGTGGAAGCAA 383

## RESULT 6

US-08-232-463-14/c  
 Sequence 14, Application US/08232463

GENERAL INFORMATION:  
 PATENT No. 5670367  
 APPLICANT: DORNER, F.  
 APPLICANT: SCHEIFLINGER, F.  
 APPLICANT: PALKNER, F. G.  
 TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS  
 NUMBER OF SEQUENCES: 52  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Foley & Lardner  
 STREET: 1800 diagonal Road, Suite 500  
 CITY: Alexandria  
 STATE: VA  
 COUNTRY: USA  
 ZIP: 22313-0299

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/232,463

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/935,313

FILING DATE:

APPLICATION NUMBER: EP 91 114 300.6

FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: BERT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 30472/114 IMNU

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 836-9300

TELEFAX: (703) 683-4109

TELEX: 899149

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 7218 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

CLONE: pTZapc-P18

US-08-232-463-14

Query Match 15.1%; Score 83.2; DB 1; Length 7218;  
 Best Local Similarity 3.4%; Pred. No. 2.2e-11;  
 Matches 13; Conservative 243; Mismatches 126; Indels 0; Gaps 0;

QY 45 AAGAAGGCGGTGTGGGTGCGGTGAGAAAAGACCAAGCAGGGGGTACGGAACACTGAG 104  
 DB 1424 RRR 1365  
 QY 105 AAGACCAAGAGAGGGGTCTATGTATGTGAGGACCAAGACAGAAATGTTACAGAC 164  
 DB 1364 RRR 1305  
 QY 165 GTGACCTCATGTCGCGGAGAGACCAAGAGAGGCCCAAGCGCTGAGCAGGCTGTG 224  
 DB 1304 RRR 1245  
 QY 225 AGCAGCTCACTGTGCGCAAGAGCCGTGAGAGAGGGGAGAGACATCGCGGTCAAC 284  
 DB 1244 RRR 1185  
 QY 285 TCCGGGTGTGCGAGAGAGACTTGAAGCCATCTGCCCAAGAGAGGTGAGCA 344  
 DB 1184 RRR 1125  
 QY 345 TCCAAAGAGAAAGAGAGAGTGCAGAGAGGCCCAAGAGTGGGGAGACTAGAGGCTCA 404  
 DB 1124 RRR 1065  
 QY 405 GGCCAGCGTGATGACTGAG 426  
 DB 1064 CGCAAGCTCCTCGACTGAG 1043

## RESULT 7

US-09-249-585A-4/c  
 Sequence 4, Application US/09249585A

PATENT No. 6417002

GENERAL INFORMATION:

APPLICANT: Horlick, Robert

TITLE OF INVENTION: METHOD FOR MAINTENANCE AND SELECTION OF EPISOMES

FILE REFERENCE: 0867/0905

CURRENT APPLICATION NUMBER: US/09/249,585A

CURRENT FILING DATE: 1999-02-11

NUMBER OF SEQ ID NOS: 18

SOFTWARE: Patent version 3.0

SEQ ID NO 4

LENGTH: 1926

TYPE: DNA

ORGANISM: Epstein Barr Virus

FEATURE:

NAME/KEY: misc\_feature

LOCATION: (1)..(1926)

OTHER INFORMATION: template strand of EBNA-1 DNA

US-09-249-585A-4

Query Match 10.7%; Score 58.8; DB 4; Length 1926;  
 Best Local Similarity 47.8%; Pred. No. 1.6e-05;  
 Matches 171; Conservative 0; Mismatches 187; Indels 0; Gaps 0;

QY 42 GCCAAGAGGGCGTGTGGGTGCGGTGAGAAAAGACCAAGCAGGGGGTGAAGAGCAGCT 101  
 DB 790 GACGAGACGGGGAGAGACGGGAGAGAGAGACGGGGAGAGACGGGAGAGACGGG 731  
 QY 102 GAGAAGACCAAGAGGGGGTATGTATGTGAGCCCAAGACCAAGAGAAATGTTGACAG 161  
 DB 730 GAGAGCAGAGACGGGGAGAGAGAGAGACGGGGAGAGACGGGGAGAGAGAGAG 671  
 QY 162 AGCTGACCTAGTGTGCGGAGAGACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 221  
 DB 670 GGGAG 611  
 QY 222 GTGAG 281

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Db      610 GAGGACGGGAGAGAGACGAGACGGGGAGAGACGGGGAGAGACGAGC 551
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Qy      282 ACCTCCGGGTGTGTCGCAAGAGGACTTGAAGCCATCTGCCCCCAAGAGGGGTGAG 341
        |||
Db      550 GGGAGAGACGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 491
        |||
Qy      342 GCATCCAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 399
        |||
Db      490 GACGGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 433
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# RESULT 8 US-09-130-114-2/c

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; Sequence 2, Application US/09130114
; Patent No. 5976807
; GENERAL INFORMATION:
; APPLICANT: Horlick, Robert A.
; APPLICANT: Dama, Bassam B.
; APPLICANT: Robbins, Alan K.
; TITLE OF INVENTION: Eukaryotic Cells Stably Expressing Genes
; TITLE OF INVENTION: From Multiple Transfected Epithomes
; FILE REFERENCE: 0867/ID903US1
; CURRENT APPLICATION NUMBER: US/09/130,114
; CURRENT FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 1931
; TYPE: DNA
; ORGANISM: EBNA
US-09-130-114-2

```

Query Match 10.7%; Score 58.8; DB 2; Length 1931;  
Best Local Similarity 47.8%; Pred. No. 1.6e-05;  
Matches 171; Conservative 0; Mismatches 187; Indels 0; Gaps 0;

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Qy      42 GCCAAGAGGGCGTGTGTCGCTGCGTGAAGAAAGACCAAGAGGGGTGACGAGACGCT 101
        |||
Db      790 GACGAGAGACGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 731
        |||
Qy      102 GAGAGAGACCAAGAGGGGTGCTATGTATGTGGAGGCCAAGAGAGATTTGTACAG 161
        |||
Db      730 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 671
        |||
Qy      162 AGCGTGACCTCACTGTCGCGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 221
        |||
Db      670 GGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 611
        |||
Qy      222 GTGAGAGAGCTCAACACTGTGCGCACCAAGAGAGAGAGAGAGAGAGAGAGAGAG 281
        |||
Db      610 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 551
        |||
Qy      282 ACCTCCGGGTGTGTCGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 341
        |||
Db      550 GGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 491
        |||
Qy      342 GCATCCAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 399
        |||
Db      490 GACGGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 433
        |||

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# RESULT 9 US-09-661-596A-76

```

; Sequence 76, Application US/09661596A
; Patent No. 6528066
; GENERAL INFORMATION:
; APPLICANT: Grose, Charles
; APPLICANT: Santos, Richard
; TITLE OF INVENTION: VARIANT VARICELLA-ZOSTER VIRUSES AND METHODS OF USE
; FILE REFERENCE: 140.0011 0101
; CURRENT APPLICATION NUMBER: US/09/661,596A
; CURRENT FILING DATE: 2000-09-14

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; PRIOR APPLICATION NUMBER: US 60/153,779
; PRIOR FILING DATE: 1998-09-14
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: Patent In version 3.0
; SEQ ID NO 76
; LENGTH: 124884
; TYPE: DNA
; ORGANISM: Varicella zoster
US-09-661-596A-76

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Query Match 9.2%; Score 50.4; DB 4; Length 124884;  
Best Local Similarity 49.3%; Pred. No. 0.0062;  
Matches 132; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

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Qy      42 GCCAAGAGGGCGTGTGTCGCTGCGTGAAGAAAGACCAAGAGGGGTGACGAGACGCT 101
        |||
Db      13977 GCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 14036
        |||
Qy      102 GAGAGAGACCAAGAGAGGGGTGCTATGTATGTGGAGGCCAAGAGAGATTTGTACAG 161
        |||
Db      14037 GCGATTGACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 14096
        |||
Qy      162 AGCGTGACCTCACTGTCGCGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 221
        |||
Db      14097 GAGGAGAGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 14156
        |||
Qy      222 GTGAGAGAGCTCAACACTGTGCGCACCAAGAGAGAGAGAGAGAGAGAGAGAGAG 281
        |||
Db      14157 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 14216
        |||
Qy      282 ACCTCCGGGTGTGTCGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 309
        |||
Db      14217 GACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 14244
        |||

```

# RESULT 10 US-09-913-514-1

```

; Sequence 1, Application US/09913514
; Patent No. 6653069
; GENERAL INFORMATION:
; APPLICANT: GOMI, Yasuyuki
; APPLICANT: SUNAMACHI, Hiroki
; APPLICANT: TAKAHASHI, Michiaki
; APPLICANT: YAMAMISHI, Koichi
; TITLE OF INVENTION: Method for Quality Control of an Attenuated Varicella Live Vaccine
; FILE REFERENCE: 0216-0454P
; CURRENT APPLICATION NUMBER: US/09/913,514
; CURRENT FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: PCT/JP01/00678
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: JP 2000-62734
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 1
; LENGTH: 124884
; TYPE: DNA
; ORGANISM: Varicella virus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(124884)
; OTHER INFORMATION: Dumas Strain
US-09-913-514-1

```

Query Match 9.2%; Score 50.4; DB 4; Length 124884;  
Best Local Similarity 49.3%; Pred. No. 0.0062;  
Matches 132; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

```

Qy      42 GCCAAGAGGGCGTGTGTCGCTGCGTGAAGAAAGACCAAGAGGGGTGACGAGACGCT 101
        |||
Db      13977 GCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 14036
        |||
Qy      102 GAGAGAGACCAAGAGAGGGGTGCTATGTATGTGGAGGCCAAGAGAGATTTGTACAG 161
        |||

```

```

Db      14037 GCGATTGACGACGAGGAGGCGGAGAGAGAGCGGAGCGGATTTGACGAC 14096
Qy      162 AGGTGACCTTCATGTCGCGGAGAGACCAAGAGAGCGCAACCGCTGACGAGCTGTG 221
Db      14097 GAGGAGAGGCGGAGGAGGAGAGAGCGGAGAGAGCGGAGAGAGCGGAG 14156
Qy      222 GTGAGCAGCGTCAACACTGTGTGCGCAAGAGCGGTGAGAGAGCGGAGCATCGCGGTC 281
Db      14157 GAGGAGCGCGATTCAGACGAGGAGAGAGCGGAGAGAGAGCGGAGCGGATTC 14216
Qy      282 ACCTCCGGGGTGTGTGCGCAAGAGAGACT 309
Db      14217 GACGACGAGGAGAGGCGGAGAGAGATT 14244

```

```

RESULT 11
US-09-913-514-32
; Sequence 32, Application US/09913514
; Patent No. 6653069
; GENERAL INFORMATION:
; APPLICANT: GOMI, Yasuyuki
; APPLICANT: SUNAMACH, Hiroki
; APPLICANT: YAMAHASHI, Michiaki
; APPLICANT: YAMAMISHI, Koichi
; TITLE OF INVENTION: Method for Quality Control of an Attenuated Varicella Live Vaccin
; FILE REFERENCE: 0216-0454P
; CURRENT APPLICATION NUMBER: US/09/913, 514
; PRIOR FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: PCT/JP01/00678
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: JP 2000-62734
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
; LENGTH: 306
; TYPE: DNA
; ORGANISM: Varicella virus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(306)
; OTHER INFORMATION: Dumas strain
US-09-913-514-32

```

```

Query Match      9.1%; Score 50; DB 4; Length 306;
Best Local Similarity 49.2%; Pred. No. 0.0014;
Matches 131; Conservative 0; Mismatches 135; Indels 0; Gaps 0;

Qy      42 GCCAAGAGGCGGTGTGCGGTGCGGTGAAAGACCAAGCAGGCGGTGACGAGAGCGCT 101
Db      41 GCGGAGAGGAGCGGATTCAGACGAGAGAGAGCGGAGAGAGAGAGAGCGGAGAGAGC 100
Qy      102 GAGAAACCAAGAGGCGGTCTATGTATGTGGAGCCAAAGCAAGAGAAATGTTGACG 161
Db      101 GCATTGACGACGAGGAGAGGCGGAGAGAGAGCGGAGAGAGCGGATTCAGACG 160
Qy      162 AGCGTGACCTCAGTGGCGGAGAGACCAAGAGAGCGGAGAGCGGAGAGAGCGGTG 221
Db      161 GAGGAGAGGCGGAGAGAGAGAGAGCGGAGAGAGAGAGCGGAGAGAGAGAG 220
Qy      222 GTGAGCAGCGTCAACACTGTGTGCGCAAGACCGGTGAGAGAGCGGAGAGCAATCGCGGTC 281
Db      221 GAGGAGCGCGATTCAGACGAGGAGAGAGAGCGGAGAGAGAGAGCGGAGAGAGCGGATTC 280
Qy      282 ACCTCCGGGGTGTGTGCGCAAGAGAG 307
Db      281 GACGACGAGGAGAGGCGGAGAGAG 306

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RESULT 12
US-08-145-705A-1/c
; Sequence 1, Application US/08145705A

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```

; Patent No. 5489513
; GENERAL INFORMATION:
; APPLICANT: Springer, Wolfgang; Plempel, Manfred;
; APPLICANT: L. Berding, Antonius
; TITLE OF INVENTION: SPECIFIC GENE PROBES AND
; TITLE OF INVENTION: PROCESSES FOR THE DIAGNOSTIC
; TITLE OF INVENTION: INVESTIGATION OF CANDIDA
; TITLE OF INVENTION: ALBICANS
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESS: SPRUNG HORN KRAMER & WOODS
; STREET: 660 White Plains Road
; CITY: Tarrytown
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10591-5144
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.4 MB storage
; COMPUTER: NEC PowerMate 1 Plus
; OPERATING SYSTEM: DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/145,705A
; FILING DATE: October 28, 1993
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: German P 42 36 708.5
; FILING DATE: October 30, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Kurt G. Briscoe
; REGISTRATION NUMBER: 33,141
; REFERENCE/DOCKET NUMBER: BAYER 8885-KGB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (914) 332-1700
; TELEFAX: (914) 332-1844
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2233 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Candida albicans
US-08-145-705A-1

```

```

Query Match      8.8%; Score 48.2; DB 1; Length 2233;
Best Local Similarity 54.1%; Pred. No. 0.0069;
Matches 98; Conservative 0; Mismatches 83; Indels 0; Gaps 0;

Qy      93 GAGCAGCTGAGAGACCAAGAGGCGGTCTATGTATGTGGAGCCAAAGACCAAGAGAAAT 152
Db      306 GAAAGGCGCTAAGAAAGAAAGAGCGCCAAAGAAAGAAAGAGAGCGCAAGAAAG 247
Qy      153 GTGTACAGAGGTGACCTCAGTGGCGGAGAAACCAAGAGAGCGGAGCGGCGTGAAG 212
Db      246 GAAAGAGAGGCGCAAGAAAGAGAGAGCGGAGAGAGAGAGAGAGAGAGAG 187
Qy      213 AAGCTGTGTGAGAGCGGTCAACACTGTGTGCGCAAGACCGGTGAGAGAGCGGAGAGAC 272
Db      166 AAGCAGAGAGAGCGCAAGAAAGAGAGAGAGCGGAGAGAGAGAGAGAGAGAG 127
Qy      273 A 273
Db      126 A 126

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```

RESULT 13
US-09-252-991A-10463/c
; Sequence 10463, Application US/09252991A

```

Patent No. 6551795  
 GENERAL INFORMATION:  
 APPLICANT: Marc J. Rubenfield et al.  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 FILE REFERENCE: 107196.136  
 CURRENT APPLICATION NUMBER: US/09/252,991A  
 PRIOR FILING DATE: 1999-02-18  
 PRIOR APPLICATION NUMBER: US 60/074,788  
 PRIOR FILING DATE: 1998-02-18  
 PRIOR APPLICATION NUMBER: US 60/094,190  
 PRIOR FILING DATE: 1998-07-27  
 NUMBER OF SEQ ID NOS: 33142  
 SEQ ID NO 10463  
 LENGTH: 1296  
 TYPE: DNA  
 ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-10463

Query Match 8.3%; Score 45.8; DB 4; Length 1296;  
 Best Local Similarity 43.1%; Pred. No. 0.023;  
 Matches 221; Conservative 0; Mismatches 292; Indels 0; Gaps 0;

23 CAAGAAGGCTTCTCATGCCAAGAAGGCGGTGCGTGGAAAGCAAGA 82  
 528 CAGCAGCAGTCATCTGATCAAGCATCTCCGCTGTCCAGAGATGAGATCCAGA 469  
 83 GGGGGTGAAGGAGCAGTGAAGAACAAGAGAGGGGTCTATGTATGTGGAGCCAAAC 142  
 468 GATGTCGCGATGCGAGAGCGCAAGCGCGAAGAGACCGCAAGTTGAGGAATCGGCTGC 409  
 143 CAAGAGATTTTGTACAGAGCGTGACTTCACTGCGCGAAGAACCAAGAGAGCCCAA 202  
 408 CGCTGCAACCAAGCGCGAGCGCTGTCCACCGAACCCCAAGATGATCACCGAGCGCG 349  
 203 GCGGTGAGCAAGGCGTGTGTGAGCAGCGTCAACCTGTGCGCAACCAAGCCGTGAGGA 262  
 348 CAGCAAGGCGCAGCGCGAGAGCAAGCGCATTCAGAAAGCGCTGGGCGAGCTGGAAC 289  
 263 GCGGAGAGCATTCGCGTCACTCCGGGTGTGTGCGCAAGAGAGACTTGAAGCCATCTGC 322  
 288 GCGGTGAAGGGCGAGCAAGAGCGAGATCGAAGGCCAAGATGAACGCTCTGTCCAGGC 229  
 323 CCCCCAAGAGAGGTGAGGCAATCCAAAGAAAGAGAGTGGCAAGAGAGGCCCAAG 382  
 228 TTCCACCCCGCTGCGCAGAAAGATGTACCGCAACAGGCGCCAGAGGCGAAGAGCTCC 169  
 363 TGGGGAGAGCTAGAGGGCTACAGGCGCAGGTGATACCTGAAGAGCGCTCTCTGCTT 442  
 168 CCAGGCGCAGAGCGCAAGAGCGCTGACGACGTGTGACGCGCGAGTTGAAAGGTCAA 109  
 443 GAGACACATCCCTCTCTAGACAAAGAGTCCCGCTTGAAGTACATGCGGTGCGCAG 502  
 108 GAGCAACAGTAAAGCCCGCGCTTGTCTTCCCGCGTCCCGGCAAGGCGGTACCGCAG 49  
 503 CTCCTGCTCTCTCTCTCTGACACCCCTTGGCC 535  
 48 ATCCGCCACGCGGAGCGCTGCTCCGCGTGGC 16

RESULT 14  
 US-09-252-991A-10369/c  
 Sequence 10369, Application US/09252991A  
 Patent No. 6551795  
 GENERAL INFORMATION:  
 APPLICANT: Marc J. Rubenfield et al.  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 FILE REFERENCE: 107196.136  
 CURRENT APPLICATION NUMBER: US/09/252,991A  
 CURRENT FILING DATE: 1999-02-18  
 PRIOR APPLICATION NUMBER: US 60/074,788  
 PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190  
 PRIOR FILING DATE: 1998-07-27  
 NUMBER OF SEQ ID NOS: 33142  
 SEQ ID NO 10369  
 LENGTH: 2106  
 TYPE: DNA  
 ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-10369

Query Match 8.3%; Score 45.8; DB 4; Length 2106;  
 Best Local Similarity 43.1%; Pred. No. 0.026;  
 Matches 221; Conservative 0; Mismatches 292; Indels 0; Gaps 0;

23 CAAGAAGGCTTCTCATGCCAAGAAGGCGGTGCGTGGAAAGCAAGA 82  
 565 CAGCAGCAGTCATCTGATCAAGCATCTCCGCTGTCCAGAGATGAGATCCAGA 506  
 83 GGGGGTGAAGGAGCAGTGAAGAACAAGAGAGGGGTCTATGTATGTGGAGCCAAAC 142  
 505 GATGTCGCGATGCGAGAGCGCAAGCGCGAAGAGACCGCAAGTTGAGGAATCGGCTGC 446  
 143 CAAGAGATTTTGTACAGAGCGTGACTTCACTGCGCGAAGAACCAAGAGAGCCCAA 202  
 445 CGCTGCAACCAAGCGCGAGCGCTGTCCACCGCAAGCGCGAAGATGATCACCGAGCGCG 386  
 203 CCGCTGAGCAAGGCTGTGTGAGCAGCGTCAACTGTGCGCGAAGAACCAAGAGAGCCCAA 262  
 385 CAGCAAGGCGCACCGCGAGAGCAAGCGCATTCAGAAAGCGCTGGGCGAGCTGGAAC 326  
 263 GCGGAGAGCATTCGCGTCACTCCGGGTGTGTGCGCAAGAGAGACTTGAAGCCATCTGC 322  
 325 GCGGTGAAGGGCGAGCAAGAGCGCGAAGTCAAGGCCAAGATGAACGCTCTGTCCAGGC 266  
 323 CCCCCAAGAGAGGTGAGGCAATCCAAAGAAAGAGAGTGGCAAGAGAGGCCCAAG 382  
 265 TTCCACCCCGCTGCGCAGAAAGATGTACCGCAACAGGCGCCAGAGGCGAAGAGCTCC 206  
 383 TGGGGAGAGCTAGAGGGCTACAGGCGCAGGTGATGACTTGAAGAGCGCTCTCTGCTT 442  
 205 CCAGGCGCAGAGCGGCAAGAGCGCTGACGACGTGTGACGCGCGAGTTGAAAGGTCAA 146  
 443 GAGACACATCCCTCTCTAGACAAAGAGTCCCGCTTGAAGTACATGCGGTGCGCAG 502  
 145 GAGCAACAGTAAAGCCCGCGCTTGTCTTCCCGCGTCCCGGCAAGGCGGTACCGCAG 86  
 503 CTCCTGCTCTCTCTCTCTGACACCCCTTGGCC 535  
 85 ATCCGCCACGCGGAGCGCTGCTCCGCGTGGC 53

RESULT 15  
 US-09-894-998A-35/c  
 Sequence 35, Application US/09894998A  
 Patent No. 6537555  
 GENERAL INFORMATION:  
 APPLICANT: Hosken, Nancy Ann  
 APPLICANT: Craig H. Day  
 APPLICANT: Davin C. Dillon  
 APPLICANT: McGowan, Patrick  
 APPLICANT: Sleath, Paul R.  
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
 TREATMENT OF HERPES SIMPLEX VIRUS INFECTION  
 FILE REFERENCE: 210121.538  
 CURRENT APPLICATION NUMBER: US/09/894,998A  
 CURRENT FILING DATE: 2001-06-28  
 NUMBER OF SEQ ID NOS: 64  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 35  
 LENGTH: 2481  
 TYPE: DNA  
 ORGANISM: HSV-2  
 US-09-894-998A-35

Query Match 8.2%; Score 45; DB 4; Length 2481;  
Best Local Similarity 45.2%; Pred. No. 0.044;  
Matches 165; Conservative 0; Mismatches 200; Indels 0; Gaps 0;

|    |      |   |      |
|----|------|---|------|
| Qy | 80   | GCAGGGGGTGACCGAAGCAGCTTGAAGAACCAAGAGGGGGTCATGTATGTGGAGCCAA    | 139  |
| Db | 1872 | GCAGGAGGAGAGAGCGCGAGCAGAGGAGCGGAGAGAGAGAGCGGAGAGGAGAGGC       | 1813 |
| Qy | 140  | GACCAAGGAGAAATGTTGTACAGAGCCGTGACCTCAGTGGCCGAGAGAACCAAGAGCAGGC | 199  |
| Db | 1812 | GGAGGAGGAGAGAGCGGAGAGAGAGCGGAGAGAGAGAGCGCGGAGCCGCGGC          | 1753 |
| Qy | 200  | CAAGCCGTGAGCAAGCGTGTGAGCAAGCTCAACTGTGAGCCACCAAGACCGTGA        | 259  |
| Db | 1752 | CTGGGACGACGAGAGCGCCGACGGGGGCGGGCGCCCGGAGCGCGGGGCGAGCGGCC      | 1693 |
| Qy | 260  | GGAGGCGGAGAACATCGCGGTCACTTCGGGGTGTGCGCAAGAGAGACTTGAAGCCATC    | 319  |
| Db | 1692 | GTGGCCGCGGTCCGCCGAGTCCGAGTCCGGGGCCCGCGCGCGCCCTCTTGGCCCC       | 1633 |
| Qy | 320  | TGCCCCCAACAGAGGGGTGAGGATCCAAAGAAAGAGAGAGAGAGGCCA              | 379  |
| Db | 1632 | CACCCCTGGGGGGCGAGGGGCGAGCGCGGGGCGCGAGAGAGAGCGGAGGACGAGGC      | 1573 |
| Qy | 380  | GAGTGGGAGAGACTAGAGGGCTACAGGCGACGCTGAGATGACTGAAGAGCGCTCTTGC    | 439  |
| Db | 1572 | CGCGGGGCCGAGTCCGACCCGCGCTTTCGGGGGCGGGCCGCCCTCCGCGGC           | 1513 |
| Qy | 440  | CTTGG 444   |      |
| Db | 1512 | GTGGG 1508  |      |

Search completed: May 24, 2004, 12:19:38  
Job time : 68 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 24, 2004, 12:11:40 ; Search time 293 Seconds  
(without alignments)  
8531.059 Million cell updates/sec

Title: US-09-017-715A-1

Perfect score: 550

Sequence: 1 CACGAGCCACCATGATGTT.....TGCGCTTCACCTGCTGCTG 550

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2953838 seqs, 2272363821 residues

Total number of hits satisfying chosen parameters: 5907676

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

Published Applications NA:\*

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3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*  
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14: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq:\*  
15: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:\*  
16: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq:\*  
17: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*  
18: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*  
19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length DB | ID | Description        |
|------------|-------|-------------|-----------|----|--------------------|
| 1          | 550   | 100.0       | 550       | 9  | US-09-954-531-613  |
| 2          | 550   | 100.0       | 550       | 16 | US-10-453-478-1    |
| 3          | 537.6 | 97.7        | 796       | 13 | US-09-925-298-171  |
| 4          | 537.6 | 97.7        | 796       | 15 | US-10-102-806-171  |
| 5          | 535.4 | 97.3        | 720       | 13 | US-10-282-174-469  |
| 6          | 531.6 | 96.7        | 720       | 15 | US-10-097-340-297  |
| 7          | 435   | 79.1        | 786       | 15 | US-10-267-849-1    |
| 8          | 428.2 | 77.9        | 479       | 10 | US-09-918-995-2705 |
| 9          | 246.8 | 44.9        | 478       | 13 | US-09-925-298-172  |
| 10         | 246.8 | 44.9        | 478       | 15 | US-10-102-806-172  |
| 11         | 175   | 31.8        | 5666      | 13 | US-10-282-174-73   |
| 12         | 174.8 | 31.8        | 5666      | 13 | US-10-282-174-72   |
| 13         | 162.4 | 29.5        | 6012      | 13 | US-10-282-174-483  |
| 14         | 161.2 | 29.3        | 4606      | 13 | US-10-240-425-388  |

|    |       |      |      |    |                      |                   |
|----|-------|------|------|----|----------------------|-------------------|
| 15 | 148.8 | 27.1 | 1018 | 12 | US-10-152-319A-1710  | Sequence 1710, Ap |
| 16 | 147.2 | 26.8 | 441  | 9  | US-09-960-352-12619  | Sequence 12619, A |
| 17 | 147.2 | 26.8 | 453  | 9  | US-09-960-352-5029   | Sequence 5029, Ap |
| 18 | 145.4 | 26.4 | 1096 | 10 | US-09-921-406C-35    | Sequence 35, Appl |
| 19 | 145.2 | 26.4 | 1105 | 13 | US-10-223-978-10     | Sequence 10, Appl |
| 20 | 144   | 26.2 | 755  | 13 | US-10-112-944-11     | Sequence 11, Appl |
| 21 | 144   | 26.2 | 1466 | 15 | US-10-101-510-362    | Sequence 362, App |
| 22 | 142   | 25.8 | 423  | 15 | US-10-077-584-1      | Sequence 1, Appli |
| 23 | 132.8 | 24.1 | 521  | 15 | US-10-029-386-9757   | Sequence 9757, Ap |
| 24 | 132.4 | 24.1 | 689  | 13 | US-10-027-632-134044 | Sequence 134044,  |
| 25 | 132.4 | 24.1 | 689  | 13 | US-10-027-632-134044 | Sequence 134044,  |
| 26 | 131.2 | 23.9 | 689  | 13 | US-10-027-632-134043 | Sequence 134043,  |
| 27 | 131.2 | 23.9 | 689  | 13 | US-10-027-632-134043 | Sequence 134043,  |
| 28 | 129.8 | 23.6 | 137  | 15 | US-10-029-386-23457  | Sequence 23457, A |
| 29 | 128.8 | 23.4 | 250  | 13 | US-09-823-245A-262   | Sequence 262, App |
| 30 | 124.2 | 22.6 | 502  | 15 | US-10-029-386-12096  | Sequence 12096, A |
| 31 | 122.8 | 22.3 | 132  | 15 | US-10-029-386-25796  | Sequence 25796, A |
| 32 | 120.6 | 21.9 | 424  | 9  | US-09-960-352-1978   | Sequence 1978, Ap |
| 33 | 120.2 | 21.9 | 249  | 9  | US-09-954-531-1217   | Sequence 1217, Ap |
| 34 | 96.4  | 17.5 | 5883 | 15 | US-10-311-455-1705   | Sequence 1705, Ap |
| 35 | 96    | 17.5 | 393  | 9  | US-09-960-352-3369   | Sequence 3369, Ap |
| 36 | 84.8  | 15.4 | 473  | 10 | US-09-918-995-1832   | Sequence 1832, Ap |
| 37 | 77    | 14.0 | 456  | 10 | US-09-918-995-26977  | Sequence 26977, A |
| 38 | 73.2  | 13.3 | 555  | 9  | US-09-864-761-15264  | Sequence 15264, A |
| 39 | 65.8  | 12.0 | 361  | 13 | US-10-085-783A-21313 | Sequence 21313, A |
| 40 | 65.8  | 12.0 | 361  | 16 | US-10-242-555A-21313 | Sequence 21313, A |
| 41 | 55.6  | 10.1 | 500  | 15 | US-10-029-386-12703  | Sequence 12703, A |
| 42 | 55.6  | 10.1 | 534  | 9  | US-09-864-761-13112  | Sequence 13112, A |
| 43 | 54.6  | 9.9  | 154  | 15 | US-10-029-386-26403  | Sequence 26403, A |
| 44 | 54.2  | 9.9  | 94   | 9  | US-09-864-761-31786  | Sequence 31786, A |
| 45 | 54    | 9.8  | 5883 | 15 | US-10-311-455-1706   | Sequence 1706, Ap |

#### ALIGNMENTS

RESULT 1

US-09-954-531-613

Sequence 613, Application US/09954531

Patent No. US20020165180A1

GENERAL INFORMATION:

APPLICANT: Weaver, Zoe

TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cance

FILE REFERENCE: 689290-77

CURRENT APPLICATION NUMBER: US/09/954,531

CURRENT FILING DATE: 2002-05-02

PRIOR APPLICATION NUMBER: US/60/233,133

PRIOR FILING DATE: 2000-09-18

PRIOR APPLICATION NUMBER: US/60/234,009

PRIOR FILING DATE: 2000-09-20

PRIOR APPLICATION NUMBER: US/60/234,034

PRIOR FILING DATE: 2000-09-20

PRIOR APPLICATION NUMBER: US/60/234,509

PRIOR FILING DATE: 2000-09-22

PRIOR APPLICATION NUMBER: US/60/234,567

PRIOR FILING DATE: 2000-09-22

NUMBER OF SEQ ID NOS: 1392

SOFTWARE: PatentIn version 3.0

SEQ ID NO 613

LENGTH: 550

TYPE: DNA

ORGANISM: Homo sapiens

US-09-954-531-613

Query Match 100.0%; Score 550; DB 9; Length 550;

Best Local Similarity 100.0%; Pred. No 5.7e-16; Indels 0; Gaps 0;

Matches 550; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACGAGCCACCATGATGTTTTCAGAGAGGCTTCCATGCCAAGAGGGCGTGTGG 60

Db 1 CACGAGCCACCATGATGTTTTCAGAGAGGCTTCCATGCCAAGAGGGCGTGTGG 60

```

QY 61 GTGGGTTGAAAAAGACCAAGAGGGGGTGAAGGAGAGCTGAGAGAACCAAGAGAGGGG 120
DB 61 GTGGGTTGAAAAAGACCAAGAGGGGGTGAAGGAGAGCTGAGAGAACCAAGAGAGGGG 120
QY 121 TCATGTATGTGGAGGCCAAGACCAAGAGATGTTGTACAGAGCGTACCTCAGTGGCCG 180
DB 121 TCATGTATGTGGAGGCCAAGACCAAGAGATGTTGTACAGAGCGTACCTCAGTGGCCG 180
QY 181 AGAAGACCAAGAGAGCGGCCCAAGCGCTGTGACAGAGCGTGTGAGCAGCGTCAACACTG 240
DB 181 AGAAGACCAAGAGAGCGGCCCAAGCGCTGTGACAGAGCGTGTGAGCAGCGTCAACACTG 240
QY 241 TGAGCCACCAAGACCGTGTGAGAGCGGAGAAATCGCGGTCACTCGCGGGGTGTGCGCA 300
DB 241 TGAGCCACCAAGACCGTGTGAGAGCGGAGAAATCGCGGTCACTCGCGGGGTGTGCGCA 300
QY 301 AGGAGGACTTGAAGGCTTGTGCGCCCAAGAGAGGGTGAAGGATCCAAAGAGAGAGG 360
DB 301 AGGAGGACTTGAAGGCTTGTGCGCCCAAGAGAGGGTGAAGGATCCAAAGAGAGAGG 360
QY 361 AAGTGGCAGAGAGAGCGCCCAAGAGTGGGGAGACTAGAGGGCTACAGGCGCAGCGTGAATGAC 420
DB 361 AAGTGGCAGAGAGAGCGCCCAAGAGTGGGGAGACTAGAGGGCTACAGGCGCAGCGTGAATGAC 420
QY 421 CTGAAGAGCGCTCTCTGCTTGTGAGACACATCCCTCTCTAGCAAGAGAGTGCCTGCTT 480
DB 421 CTGAAGAGCGCTCTCTGCTTGTGAGACACATCCCTCTCTAGCAAGAGAGTGCCTGCTT 480
QY 481 GAGTGACATGCGGGTGTGCCACAGCTCTGCTGCTGCTCTGCTGACACCTTGGCTGTCC 540
DB 481 GAGTGACATGCGGGTGTGCCACAGCTCTGCTGCTGCTGCTGACACCTTGGCTGTCC 540
QY 541 ACCTGTGCTG 550
DB 541 ACCTGTGCTG 550

```

## RESULT 2

US-10-453-478-1

Sequence 1, Application US/10453478  
Publication No. US20030208043A1

GENERAL INFORMATION:

APPLICANT: Paul Moore, Reiner Genz, Hongjin Ji,

Jian Ni and Jing-Shan Hu

TITLE OF INVENTION: Human Genes, Sequences and

NUMBER OF SEQUENCES: 22

CORRESPONDENCE ADDRESS:

ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,

CECCHI, STEWART &amp; OLSTEIN

STREET: 6 BECKER FARM ROAD

CITY: ROSELAND

STATE: NEW JERSEY

COUNTRY: USA

ZIP: 07068

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 INCH DISKETTE

COMPUTER: IBM PS/2

OPERATING SYSTEM: MS-DOS

SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/453,478

FILING DATE: 04-Jun-2003

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/705,771

FILING DATE: August 30, 1996

ATTORNEY/AGENT INFORMATION:

NAME: MULLINS, J.G.

REGISTRATION NUMBER: 33,073

REFERENCE/DOCKET NUMBER: 325800-346 (PFI96)

TELECOMMUNICATION INFORMATION:

TELEPHONE: 973-994-1700

TELEFAX: 973-994-1744  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 550 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-10-453-478-1

Query Match 100.0%; Score 550; DB 16; Length 550;  
Best Local Similarity 100.0%; Pred. No. 5.7e-146;  
Matches 550; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CACGAGCCACCATGATGATGTTTCAAGAAAGGCTTCTCATGCGCAAGAGAGGCGGTGG 60
DB 1 CACGAGCCACCATGATGATGTTTCAAGAAAGGCTTCTCATGCGCAAGAGAGGCGGTGG 60
QY 61 GTGGGTTGAAAAAGACCAAGAGGGGGTGAAGGAGAGCTGAGAGAACCAAGAGAGGGG 120
DB 61 GTGGGTTGAAAAAGACCAAGAGGGGGTGAAGGAGAGCTGAGAGAACCAAGAGAGGGG 120
QY 121 TCATGTATGTGGAGGCCAAGACCAAGAGATGTTGTACAGAGCGTACCTCAGTGGCCG 180
DB 121 TCATGTATGTGGAGGCCAAGACCAAGAGATGTTGTACAGAGCGTACCTCAGTGGCCG 180
QY 181 AGAAGACCAAGAGAGCGGCCCAAGCGCTGTGACAGAGCGTGTGAGCAGCGTCAACACTG 240
DB 181 AGAAGACCAAGAGAGCGGCCCAAGCGCTGTGACAGAGCGTGTGAGCAGCGTCAACACTG 240
QY 241 TGAGCCACCAAGACCGTGTGAGAGCGGAGAAATCGCGGTCACTCGCGGGGTGTGCGCA 300
DB 241 TGAGCCACCAAGACCGTGTGAGAGCGGAGAAATCGCGGTCACTCGCGGGGTGTGCGCA 300
QY 301 AGGAGGACTTGAAGGCTTGTGCGCCCAAGAGAGGGTGAAGGATCCAAAGAGAGAGG 360
DB 301 AGGAGGACTTGAAGGCTTGTGCGCCCAAGAGAGGGTGAAGGATCCAAAGAGAGAGG 360
QY 361 AAGTGGCAGAGAGAGCGCCCAAGAGTGGGGAGACTAGAGGGCTACAGGCGCAGCGTGAATGAC 420
DB 361 AAGTGGCAGAGAGAGCGCCCAAGAGTGGGGAGACTAGAGGGCTACAGGCGCAGCGTGAATGAC 420
QY 421 CTGAAGAGCGCTCTCTGCTTGTGAGACACATCCCTCTCTAGCAAGAGAGTGCCTGCTT 480
DB 421 CTGAAGAGCGCTCTCTGCTTGTGAGACACATCCCTCTCTAGCAAGAGAGTGCCTGCTT 480
QY 481 GAGTGACATGCGGGTGTGCCACAGCTCTGCTGCTGCTCTGCTGACACCTTGGCTGTCC 540
DB 481 GAGTGACATGCGGGTGTGCCACAGCTCTGCTGCTGCTCTGCTGACACCTTGGCTGTCC 540
QY 541 ACCTGTGCTG 550
DB 541 ACCTGTGCTG 550

```

## RESULT 3

US-09-925-298-171

Sequence 171, Application US/09925298  
Publication No. US20020039764A1

GENERAL INFORMATION:

APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies

FILE REFERENCE: PA103

CURRENT APPLICATION NUMBER: US/09/925,298

PRIOR FILING DATE: 2001-08-10

PRIOR APPLICATION NUMBER: PCT/US00/05881

PRIOR FILING DATE: 2000-03-08

PRIOR APPLICATION NUMBER: 60/124,270

NUMBER OF SEQ ID NOS: 846

SOFTWARE: Patent In Ver. 2.0

SEQ ID NO 171

LENGTH: 796  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-925-298-171

Query Match 97.7%; Score 537.6; DB 13; Length 796;  
Best Local Similarity 98.9%; Pred. No. 1.9e-142;  
Matches 540; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

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QY 5 AGCCACATGATGTTTTCAGAGAGGCGCTTCCATCCGCAAGAGGCGGTGAGTGC 64
DB 102 ACCCAACATGATGTTTTCAGAGAGGCGCTTCCATCCGCAAGAGGCGGTGAGTGC 161
QY 65 GGTGAAAAAGACCAAGAGGCGGTGACGAGACGCTGAGAGACCAAGAGGCGGTCTAT 124
DB 162 GGTGAAAAAGACCAAGAGGCGGTGACGAGACGCTGAGAGACCAAGAGGCGGTCTAT 221
QY 125 GATATGGAGGACCAAGAGAGATGTTGTAACAGCGTGAACCTCACTGCGCAGAA 184
DB 222 GATATGGAGGACCAAGAGAGATGTTGTAACAGCGTGAACCTCACTGCGCAGAA 281
QY 185 GACCAAGAGCAGGCGCAACGCGGTGAGAGAGCGTGTGAGACGCTCAACACTGTGCG 244
DB 282 GACCAAGAGCAGGCGCAACGCGGTGAGAGAGCGTGTGAGACGCTCAACACTGTGCG 341
QY 245 CACCAAGACCGTGAAGAGAGCGGAGAACATCGCGGTCACTCCGCGGTGTGCGCAGAA 304
DB 342 CACCAAGACCGTGAAGAGAGCGGAGAACATCGCGGTCACTCCGCGGTGTGCGCAGAA 401
QY 305 GCACTTGAAGCCCATCTGCCCCCAACAGAGAGGTGATGAGATCAAGAGAGAGAAAT 364
DB 402 GCACTTGAAGCCCATCTGCCCCCAACAGAGAGGTGATGAGATCAAGAGAGAGAAAT 461
QY 365 GGCAGAGAGGCGCCAGAGTGGGGAGACTAGAGGCTACAGGCGCAGCTGATGACTGA 424
DB 462 GGCAGAGAGGCGCCAGAGTGGGGAGACTAGAGGCTACAGGCGCAGCTGATGACTGA 521
QY 425 AGAGGCTCTCTGCTTGGAGACCAATCCCTCTTAGACCAAGAGAGTCCCGCTTGAAT 484
DB 522 AGAGGCTCTCTGCTTGGAGACCAATCCCTCTTAGACCAAGAGAGTCCCGCTTGAAT 581
QY 485 GACATGCGGGGTGCCACGCTCTGCGCTGTCTCCCTGAGACCCCTTGCGCTGCACCT 544
DB 582 GACATGCGGGGTGCCACGCTCTGCGCTGTCTCCCTGAGCAACCTTGCGCTGCACCT 641
QY 545 GTGCTG 550
DB 642 GTGCTG 647
```

## RESULT 4

US-10-102-806-171  
Sequence 171, Application US/10102806  
Publication No. US20030054421A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: P4103P1  
CURRENT APPLICATION NUMBER: US/10/102, 806  
CURRENT FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: 09/925, 298  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05881  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124, 270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 846  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 171  
LENGTH: 796  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-102-806-171

Query Match 97.7%; Score 537.6; DB 15; Length 796;  
Best Local Similarity 98.9%; Pred. No. 1.9e-142;  
Matches 540; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

```
QY 5 AGCCACATGATGTTTTCAGAGAGGCGCTTCCATCCGCAAGAGGCGGTGAGTGC 64
DB 102 ACCCAACATGATGTTTTCAGAGAGGCGCTTCCATCCGCAAGAGGCGGTGAGTGC 161
QY 65 GGTGAAAAAGACCAAGAGGCGGTGACGAGACGCTGAGAGACCAAGAGGCGGTCTAT 124
DB 162 GGTGAAAAAGACCAAGAGGCGGTGACGAGACGCTGAGAGACCAAGAGGCGGTCTAT 221
QY 125 GATATGGAGGACCAAGAGAGATGTTGTAACAGCGTGAACCTCACTGCGCAGAA 184
DB 222 GATATGGAGGACCAAGAGAGATGTTGTAACAGCGTGAACCTCACTGCGCAGAA 281
QY 185 GACCAAGAGCAGGCGCAACGCGGTGAGAGAGCGTGTGAGACGCTCAACACTGTGCG 244
DB 282 GACCAAGAGCAGGCGCAACGCGGTGAGAGAGCGTGTGAGACGCTCAACACTGTGCG 341
QY 245 CACCAAGACCGTGAAGAGAGCGGAGAACATCGCGGTCACTCCGCGGTGTGCGCAGAA 304
DB 342 CACCAAGACCGTGAAGAGAGCGGAGAACATCGCGGTCACTCCGCGGTGTGCGCAGAA 401
QY 305 GCACTTGAAGCCCATCTGCCCCCAACAGAGAGGTGATGAGATCAAGAGAGAGAAAT 364
DB 402 GCACTTGAAGCCCATCTGCCCCCAACAGAGAGGTGATGAGATCAAGAGAGAGAAAT 461
QY 365 GGCAGAGAGGCGCCAGAGTGGGGAGACTAGAGGCTACAGGCGCAGCTGATGACTGA 424
DB 462 GGCAGAGAGGCGCCAGAGTGGGGAGACTAGAGGCTACAGGCGCAGCTGATGACTGA 521
QY 425 AGAGGCTCTCTGCTTGGAGACCAATCCCTCTTAGACCAAGAGAGTCCCGCTTGAAT 484
DB 522 AGAGGCTCTCTGCTTGGAGACCAATCCCTCTTAGACCAAGAGAGTCCCGCTTGAAT 581
QY 485 GACATGCGGGGTGCCACGCTCTGCGCTGTCTCCCTGAGACCCCTTGCGCTGCACCT 544
DB 582 GACATGCGGGGTGCCACGCTCTGCGCTGTCTCCCTGAGCAACCTTGCGCTGCACCT 641
QY 545 GTGCTG 550
DB 642 GTGCTG 647
```

## RESULT 5

US-10-282-174-469  
Sequence 469, Application US/10282174  
Publication No. US20030224380A1  
GENERAL INFORMATION:  
APPLICANT: Becker, Kenneth David  
APPLICANT: Velicelch, Goni  
APPLICANT: Elliott, Kathryn J.  
APPLICANT: Wang, Xin  
APPLICANT: Tanzi, Rudolph E.  
APPLICANT: Bertam, Lars  
APPLICANT: Saunders, Aleister J.  
APPLICANT: Mullin, Kristina M.  
APPLICANT: Sampson, Andrew Johnson  
TITLE OF INVENTION: GENES AND POLYMORPHISMS ON CHROMOSOME 10  
TITLE OF INVENTION: ASSOCIATED WITH ALZHEIMER'S DISEASE AND OTHER  
FILE REFERENCE: 37481-3308  
CURRENT APPLICATION NUMBER: US/10/282, 174  
CURRENT FILING DATE: 2002-10-25  
PRIOR APPLICATION NUMBER: US 60/339, 525  
PRIOR FILING DATE: 2001-10-25  
PRIOR APPLICATION NUMBER: US 60/338, 010  
PRIOR FILING DATE: 2001-11-08  
PRIOR APPLICATION NUMBER: US 60/336, 929  
PRIOR FILING DATE: 2001-11-08

PRIOR APPLICATION NUMBER: US 60/338,363  
 PRIOR FILING DATE: 2001-11-09  
 PRIOR APPLICATION NUMBER: US 60/337,052  
 PRIOR FILING DATE: 2001-12-04  
 PRIOR APPLICATION NUMBER: US 60/368,919  
 PRIOR FILING DATE: 2002-03-28  
 NUMBER OF SEQ ID NOS: 564  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 469  
 LENGTH: 720  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 30,57,85,243,250,377,512,531,555,561,672  
 OTHER INFORMATION: N is any  
 US-10-282-174-469

Query Match 97.3%; Score 535.4; DB 13; Length 720;  
 Best Local Similarity 98.2%; Pred. No. 8,1e-142; Indels 0; Gaps 0;  
 Matches 536; Conservative 0; Mismatches 10;

|    |     |   |     |
|----|-----|---|-----|
| QY | 5   | AGCCACCATGATGTTTCAAGAGGGCTTCTCCATCCCAAGAGGCGTGTGGTGC    | 64  |
| DB | 42  | ACCCACCATGATGTTTCAAGAGGGCTTCTCCATCCCAAGAGGCGTGTGGTGC    | 101 |
| QY | 65  | GGTGGAAAAACCAACAGGGGGGTGACGGAAGCACTGAGAAACCAAGAGGGGGTCA | 124 |
| DB | 102 | GGTGGAAAAACCAACAGGGGGGTGACGGAAGCACTGAGAAACCAAGAGGGGGTCA | 161 |
| QY | 125 | GTATGTGGAGCCCAAGCAAGAGAGATGTTGTACAGAGGGTGAAGCTCACTGATG  | 184 |
| DB | 162 | GTATGTGGAGCCCAAGCAAGAGAGATGTTGTACAGAGGGTGAAGCTCACTGATG  | 221 |
| QY | 185 | GACCAAGAGAGGAGCCCAAGCGCTGTAGCAAGGCTGTGTAGAGGCTCAACTGTGC | 244 |
| DB | 222 | GACCAAGAGAGGAGCCCAAGCGCTGTAGCAAGGCTGTGTAGAGGCTCAACTGTGC | 281 |
| QY | 245 | CACCAAGAGAGGAGGAGGAGGAGCAATCCGCGTCACTCCGGGGTGTGGCAAGA   | 304 |
| DB | 282 | CACCAAGAGAGGAGGAGGAGGAGCAATCCGCGTCACTCCGGGGTGTGGCAAGA   | 341 |
| QY | 305 | GGACTTGAGGAGCCCTGCCCCCAAGAGAGGGGTGAGGCACTCCAAAGAGAGAGT  | 364 |
| DB | 342 | GGACTTGAGGAGCCCTGCCCCCAAGAGAGGGGTGAGGCACTCCAAAGAGAGAGT  | 401 |
| QY | 365 | GGCAGAGAGAGGCCCAAGAGTGGGGGAGACTAGAGGGGCTTACAGGCCAGCTGTG | 424 |
| DB | 402 | GGCAGAGAGAGGCCCAAGAGTGGGGGAGACTAGAGGGGCTTACAGGCCAGCTGTG | 461 |
| QY | 425 | AAGAGCGCTCTCTGCTTGGAGCAATCCCTCTTACCAAGAGATGCCCGCTTGAAT  | 484 |
| DB | 462 | AAGAGCGCTCTCTGCTTGGAGCAATCCCTCTTACCAAGAGATGCCCGCTTGAAT  | 521 |
| QY | 485 | GACATCGGGGTGCCAGCTCTGCTCTGCTCTCCCTGAGCAACCTTGGCTGTCCACT | 544 |
| DB | 522 | GACATCGGGGTGCCAGCTCTGCTCTGCTCTCCCTGAGCAACCTTGGCTGTCCACT | 581 |
| QY | 545 | GTGCTG 550  |     |
| DB | 582 | GTGCTG 587  |     |

RESULT 6  
 US-10-097-340-297  
 Sequence 297, Application US/10097340  
 Publication No. US20030087250A1  
 GENERAL INFORMATION:  
 APPLICANT: John MONAHAN  
 APPLICANT: Manjula GANNAYARAPU  
 APPLICANT: Sebastian HOERSCH  
 APPLICANT: Shubhangi KAMATKAR  
 APPLICANT: Steve G. KOVATS

APPLICANT: Rachel E. MEYERS  
 APPLICANT: Michael MORRISSEY  
 APPLICANT: Peter OLANDT  
 APPLICANT: Ami SEN  
 APPLICANT: Peter VEIBY  
 APPLICANT: Gordon B. MILLS  
 APPLICANT: Robert C. BAST, Jr.  
 APPLICANT: Karen LU  
 APPLICANT: Rosemarie SCHMANDT  
 APPLICANT: Xumei ZHAO  
 APPLICANT: Karen GLATT  
 TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
 TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer  
 FILE REFERENCE: MRI-030  
 CURRENT APPLICATION NUMBER: US/10/097,340  
 PRIOR FILING DATE: 2002-03-14  
 PRIOR APPLICATION NUMBER: 60/276,025  
 PRIOR FILING DATE: 2001-03-14  
 PRIOR APPLICATION NUMBER: 60/325,149  
 PRIOR FILING DATE: 2001-09-26  
 PRIOR APPLICATION NUMBER: 60/276,026  
 PRIOR FILING DATE: 2001-03-14  
 PRIOR APPLICATION NUMBER: 60/324,967  
 PRIOR FILING DATE: 2001/09/26  
 PRIOR APPLICATION NUMBER: 60/311,732  
 PRIOR FILING DATE: 2001-08-10  
 PRIOR APPLICATION NUMBER: 60/325,102  
 PRIOR FILING DATE: 2001-09-26  
 PRIOR APPLICATION NUMBER: 60/323,580  
 PRIOR FILING DATE: 2001-09-19  
 NUMBER OF SEQ ID NOS: 363  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 297  
 LENGTH: 720  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-10-097-340-297

Query Match 96.7%; Score 531.6; DB 15; Length 720;  
 Best Local Similarity 98.4%; Pred. No. 9.6e-141;  
 Matches 537; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

|    |     |   |     |
|----|-----|---|-----|
| QY | 5   | AGCCACCATGATGTTTCAAGAGGGCTTCTCCATCCCAAGAGGCGTGTGGTGC    | 64  |
| DB | 42  | ACCCACCATGATGTTTCAAGAGGGCTTCTCCATCCCAAGAGGCGTGTGGTGC    | 101 |
| QY | 65  | GGTGGAAAAACCAACAGGGGGGTGACGGAAGCACTGAGAAACCAAGAGGGGGTCA | 124 |
| DB | 102 | GGTGGAAAAACCAACAGGGGGGTGACGGAAGCACTGAGAAACCAAGAGGGGGTCA | 161 |
| QY | 125 | GTATGTGGAGCCCAAGCAAGAGAGATGTTGTACAGAGGGTGAAGCTCACTGATG  | 184 |
| DB | 162 | GTATGTGGAGCCCAAGCAAGAGAGATGTTGTACAGAGGGTGAAGCTCACTGATG  | 221 |
| QY | 185 | GACCAAGAGAGGAGCCCAAGCGCTGTAGCAAGGCTGTGTAGAGGCTCAACTGTGC | 244 |
| DB | 222 | GACCAAGAGAGGAGCCCAAGCGCTGTAGCAAGGCTGTGTAGAGGCTCAACTGTGC | 281 |
| QY | 245 | CACCAAGAGAGGAGCCCAAGCGCTGTAGCAAGGCTGTGTAGAGGCTCAACTGTGC | 304 |
| DB | 282 | CACCAAGAGAGGAGCCCAAGCGCTGTAGCAAGGCTGTGTAGAGGCTCAACTGTGC | 341 |
| QY | 305 | GGACTTGAGGAGCCCTGCCCCCAAGAGAGGGGTGAGGCACTCCAAAGAGAGAGT  | 364 |
| DB | 342 | GGACTTGAGGAGCCCTGCCCCCAAGAGAGGGGTGAGGCACTCCAAAGAGAGAGT  | 401 |
| QY | 365 | GGCAGAGAGAGGCCCAAGAGTGGGGGAGACTAGAGGGCTTACAGGCCAGCTGTG  | 424 |
| DB | 402 | GGCAGAGAGAGGCCCAAGAGTGGGGGAGACTAGAGGGCTTACAGGCCAGCTGTG  | 461 |
| QY | 425 | AGAGCGCTCTCTGCTTGGAGCAATCCCTCTTACCAAGAGATGCCCGCTTGAAT   | 484 |
| DB | 462 | AGAGCGCTCTCTGCTTGGAGCAATCCCTCTTACCAAGAGATGCCCGCTTGAAT   | 521 |



;; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
;; FILE REFERENCE: PA103  
;; CURRENT APPLICATION NUMBER: US/09/925,298  
;; CURRENT FILING DATE: 2001-08-10  
;; PRIOR APPLICATION NUMBER: PCT/US00/05881  
;; PRIOR FILING DATE: 2000-03-08  
;; PRIOR APPLICATION NUMBER: 60/124,270  
;; PRIOR FILING DATE: 1999-03-12  
;; NUMBER OF SEQ ID NOS: 846  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 172  
;; LENGTH: 478  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-925-298-172

Query Match 44.9%; Score 246.8; DB 13; Length 478;  
Best Local Similarity 99.2%; Pred. No. 4,3e-60;  
Matches 248; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 301 AGAGAGACTTGAAGCCATCTGCCCCCAACAGAGAGGTGAGCATCCAAAGAGAGAGG 360  
DB 81 AGAGAGACTTGAAGCCATCTGCCCCCAACAGAGAGGTGAGCATCCAAAGAGAGAGG 140  
QY 361 AAGTGGCAGAGAGAGCCAGAGTGGGGGAGACTAGAGGGCTACAGGCCAGCGTGATGAC 420  
DB 141 AAGTGGCAGAGAGAGCCAGAGTGGGGGAGACTAGAGGGCTACAGGCCAGCGTGATGAC 200  
QY 421 CTGAAGAGCGCTCTCTGCTTGGACACATCCCTCTAGACAAAGAGTGGCCCTT 480  
DB 201 CTGAAGAGCGCTCTCTGCTTGGACACATCCCTCTAGACAAAGAGTGGCCCTT 260  
QY 481 GAGTGACATGCGGGTCCCAAGCTCTGCTGCTTGTCTCTCTGACACCTTGCCCTGTCC 540  
DB 261 GAGTGACATGCGGGTCCCAAGCTCTGCTGCTTGTCTCTCTGACACCTTGCCCTGTCC 320  
QY 541 ACCTGTGCTG 550  
DB 321 ACCTGTGCTG 330

RESULT 10  
US-10-102-806-172  
;; Sequence 172, Application US/10102806  
;; Publication No. US20030054421A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Rosen et al.  
;; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
;; FILE REFERENCE: PA103P1C1  
;; CURRENT APPLICATION NUMBER: US/10/102,806  
;; CURRENT FILING DATE: 2002-03-22  
;; PRIOR APPLICATION NUMBER: 09/925,298  
;; PRIOR FILING DATE: 2001-08-10  
;; PRIOR APPLICATION NUMBER: PCT/US00/05881  
;; PRIOR FILING DATE: 2000-03-08  
;; PRIOR APPLICATION NUMBER: 60/124,270  
;; PRIOR FILING DATE: 1999-03-12  
;; NUMBER OF SEQ ID NOS: 846  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 172  
;; LENGTH: 478  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-10-102-806-172

Query Match 44.9%; Score 246.8; DB 15; Length 478;  
Best Local Similarity 99.2%; Pred. No. 4,3e-60;  
Matches 248; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 301 AGAGAGACTTGAAGCCATCTGCCCCCAACAGAGAGGTGAGCATCCAAAGAGAGAGG 360  
DB 81 AGAGAGACTTGAAGCCATCTGCCCCCAACAGAGAGGTGAGCATCCAAAGAGAGAGG 140

QY 361 AAGTGGCAGAGAGAGCCCAAGAGTGGGGGAGACTTAGAGGGCTTACAGGCCAGCGTGATGAC 420  
DB 141 AAGTGGCAGAGAGAGCCCAAGAGTGGGGGAGACTTAGAGGGCTTACAGGCCAGCGTGATGAC 200  
QY 421 CTGAAGAGCGCTCTCTGCTTGGACACCATCCCTCTAGACAAAGAGTGGCCCGCTT 480  
DB 201 CTGAAGAGCGCTCTCTGCTTGGACACCATCCCTCTAGACAAAGAGTGGCCCGCTT 260  
QY 481 GAGTGACATGCGGGTCCCAAGCTCTGCTGCTTGTCTCTCTGACACCTTGCCCTGTCC 540  
DB 261 GAGTGACATGCGGGTCCCAAGCTCTGCTGCTTGTCTCTCTGACACCTTGCCCTGTCC 320  
QY 541 ACCTGTGCTG 550  
DB 321 ACCTGTGCTG 330

RESULT 11  
US-10-282-174-73  
;; Sequence 73, Application US/10282174  
;; Publication No. US20030224380A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Becker, Kenneth David  
;; APPLICANT: Velicelshi, Goni  
;; APPLICANT: Elliot, Kathryn J.  
;; APPLICANT: Wang, Xin  
;; APPLICANT: Tanzi, Rudolph E.  
;; APPLICANT: Bertam, Lars  
;; APPLICANT: Saunders, Aleister J.  
;; APPLICANT: Mullin, Kristina M.  
;; APPLICANT: Sampson, Andrew Johnson  
;; APPLICANT: Blacker, Deborah Lynne  
;; TITLE OF INVENTION: GENES AND POLYMORPHISMS ON CHROMOSOME 10  
;; TITLE OF INVENTION: ASSOCIATED WITH ALZHEIMER'S DISEASE AND OTHER  
;; FILE REFERENCE: 37481-3308  
;; CURRENT APPLICATION NUMBER: US/10/282,174  
;; CURRENT FILING DATE: 2002-10-25  
;; PRIOR APPLICATION NUMBER: US 60/339,525  
;; PRIOR FILING DATE: 2001-10-25  
;; PRIOR APPLICATION NUMBER: US 60/338,010  
;; PRIOR FILING DATE: 2001-11-08  
;; PRIOR APPLICATION NUMBER: US 60/336,929  
;; PRIOR FILING DATE: 2001-11-08  
;; PRIOR APPLICATION NUMBER: US 60/338,363  
;; PRIOR FILING DATE: 2001-11-09  
;; PRIOR APPLICATION NUMBER: US 60/337,052  
;; PRIOR FILING DATE: 2001-12-04  
;; PRIOR APPLICATION NUMBER: US 60/368,919  
;; PRIOR FILING DATE: 2002-03-28  
;; NUMBER OF SEQ ID NOS: 564  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 73  
;; LENGTH: 5666  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
;; FEATURE:  
NAME/KEY: allele  
LOCATION: 560,590,617,645,915,987,1723,1943,1950,3151,3178,3189,3284,  
LOCATION: 4276,4311,4552,4995,5019,5025,5112,5136,5421,5648,5517  
OTHER INFORMATION: N is any  
FEATURE:  
NAME/KEY: allele  
LOCATION: 3779  
OTHER INFORMATION: deletion: T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 4156  
OTHER INFORMATION: insertion following nucleotide 4155  
FEATURE:  
NAME/KEY: allele  
LOCATION: 4976  
OTHER INFORMATION: deletion: C



APPLICANT: Vockley, Joseph G.  
 TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue  
 FILE REFERENCE: 44921-5026  
 CURRENT APPLICATION NUMBER: US/10/240,425  
 CURRENT FILING DATE: 2002-09-30  
 PRIOR APPLICATION NUMBER: PCT/US01/09847  
 PRIOR FILING DATE: 2001-03-28  
 PRIOR APPLICATION NUMBER: US 60/193,446  
 PRIOR FILING DATE: 2000-03-31  
 NUMBER OF SEQ ID NOS: 1588  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 388  
 LENGTH: 4606  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 OTHER INFORMATION: Genbank Accession No. US20040033502A1 AF044311  
 US-10-240-425-388

Query Match 29.3%; Score 161.2; DB 13; Length 4606;  
 Best Local Similarity 97.8%; Pred. No. 9.9e-36; Mismatches 3; Indels 1; Gaps 1;  
 Matches 144; Conservative 0; Mismatches 3; Indels 1; Gaps 1;  
 QY 373 AGGCCGAGATGGGGAGACTAGAGGCTACAGGCCAGCGTGATGACCTGAAGACGCT 432  
 DB 4312 AGGCCGAGATGGGGAGACTAGAGGCTACAGGCCAGCGTGATGACCTGAAGACGCT 4371  
 QY 433 CCTTCCTTTGACACCATCTCTCTAGACAGAGATGCCCTTGAAGTACATGCG 492  
 DB 4372 CCTTCCTTTGACACCATCTCTCTAGACAGAGATG-CCGCTTGAAGTACATGCG 4430  
 QY 493 GGTGCCAGCT 550  
 DB 4431 GGTGCCAGCT 4488

RESULT 15  
 US-10-152-319A-1710  
 Sequence 1710, Application US/10152319A  
 Publication No. US20040072160A1  
 GENERAL INFORMATION:  
 APPLICANT: Mendrick, Donna  
 APPLICANT: Porter, Mark  
 APPLICANT: Johnson, Kory  
 APPLICANT: Higgs, Brandon  
 APPLICANT: Castle, Arthur  
 APPLICANT: Elashoff, Michael  
 TITLE OF INVENTION: Molecular Toxicology Modeling  
 FILE REFERENCE: 44921-5089-US  
 CURRENT APPLICATION NUMBER: US/10/152,319A  
 CURRENT FILING DATE: 2002-05-22  
 PRIOR APPLICATION NUMBER: US 60/292,335  
 PRIOR FILING DATE: 2001-05-22  
 PRIOR APPLICATION NUMBER: US 60/297,523  
 PRIOR FILING DATE: 2001-06-13  
 PRIOR APPLICATION NUMBER: US 60/298,925  
 PRIOR FILING DATE: 2001-06-19  
 PRIOR APPLICATION NUMBER: US 60/303,810  
 PRIOR FILING DATE: 2001-07-10  
 PRIOR APPLICATION NUMBER: US 60/303,807  
 PRIOR FILING DATE: 2001-07-10  
 PRIOR APPLICATION NUMBER: US 60/303,808  
 PRIOR FILING DATE: 2001-07-10  
 PRIOR APPLICATION NUMBER: US 60/315,047  
 PRIOR FILING DATE: 2001-08-28  
 PRIOR APPLICATION NUMBER: US 60/324,928  
 PRIOR FILING DATE: 2001-09-27  
 PRIOR APPLICATION NUMBER: US 60/330,867  
 PRIOR FILING DATE: 2001-11-01  
 PRIOR APPLICATION NUMBER: US 60/330,462  
 PRIOR FILING DATE: 2001-10-22  
 Remaining Prior Application data removed - See File Wrapper or PALM.  
 NUMBER OF SEQ ID NOS: 2221

SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 1710  
 LENGTH: 1018  
 TYPE: DNA  
 ORGANISM: Rattus norvegicus  
 FEATURE:  
 OTHER INFORMATION: Genbank Accession No. NM\_019169  
 US-10-152-319A-1710

Query Match 27.1%; Score 148.8; DB 12; Length 1018;  
 Best Local Similarity 68.1%; Pred. No. 2.7e-32;  
 Matches 207; Conservative 0; Mismatches 97; Indels 0; Gaps 0;  
 QY 10 CCATGATGTTTCAAGAGGCTTCTCCATCCCAAGAGGCGTGATGGTGGGCTG 69  
 DB 26 CCATGATGTTTCAAGAGGCTTCTCCATCCCAAGAGGCGTGATGGTGGGCTG 85  
 QY 70 AAAAGACCAAGAGGCGTGACGAGAGCTGAGAGACCAAGAGGCGTGATG 129  
 DB 86 AAAAGACCAAGAGGCGTGACGAGAGCTGAGAGACCAAGAGGCGTGATG 145  
 QY 130 TGGAGCCCAAGACCAAGAGGAGTGTGACAGAGCTGACCTCACTGCGCGAAGACCA 189  
 DB 146 TGGAGCCCAAGACCAAGAGGAGTGTGACAGAGCTGACCAAGAGCTGAGAGACCA 205  
 QY 190 AGGAGCAGGCCAAGCGCGTGAGCAAGGCTGTGTGAGAGAGGCTCAACTGTGGCCACCA 249  
 DB 206 AAGAGCAAGTGCAAAATGTTGAGGAGGCAAGTGTGACAGAGTGTGCTGAGA 265  
 QY 250 AGACCGTGAAGAGGCGAGAGACATCGCGATCACTCCGAGGAGTGTGCGCAAGAGAGCT 309  
 DB 266 AGACAGTGAAGAGGAGCTGGAACATGTGCTGACCACTGTTTGTCAAGAGAGCACGA 325  
 QY 310 TGAG 313  
 DB 326 TGGG 329

Search completed: May 24, 2004, 13:19:56  
 Job time : 295 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 24, 2004, 12:18:20 ; Search time 64 Seconds  
(without alignments)  
4769.109 Million cell updates/sec

Title: US-09-017-715A-1

Perfect score: 550  
Sequence: 1 CACGAGCCACCATGATGTT.....TGCGCTGTCACCTGTGCTG 550

Scoring table: OLIGO NUC  
Gapop 60.0 , Gapept 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: listing first 45 summaries

Database : Issued Patents NA.\*

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- 2: /cgn2\_6/ptodata/2/ina/5B.COMB.seq.\*
- 3: /cgn2\_6/ptodata/2/ina/6A.COMB.seq.\*
- 4: /cgn2\_6/ptodata/2/ina/6B.COMB.seq.\*
- 5: /cgn2\_6/ptodata/2/ina/PCTUS.COMB.seq.\*
- 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | ID                   | Description         |
|------------|-------|-------------|--------|----------------------|---------------------|
| 1          | 550   | 100.0       | 550    | US-08-705-771-1      | Sequence 1, Appli   |
| 2          | 550   | 100.0       | 550    | US-09-417-540-1      | Sequence 1, Appli   |
| 3          | 110   | 20.0        | 786    | PCT-US95-08295-1     | Sequence 1, Appli   |
| 4          | 22    | 4.0         | 1792   | US-09-976-594-999    | Sequence 999, App   |
| 5          | 21    | 3.8         | 21     | PCT-US95-08295-25    | Sequence 25, Appli  |
| 6          | 19    | 3.5         | 36     | PCT-US95-08295-29    | Sequence 29, Appli  |
| 7          | 18    | 3.3         | 27     | PCT-US95-08295-10    | Sequence 30, Appli  |
| 8          | 18    | 3.3         | 28     | PCT-US95-08295-26    | Sequence 26, Appli  |
| 9          | 18    | 3.3         | 427    | US-09-621-976-8512   | Sequence 8512, Ap   |
| 10         | 18    | 3.3         | 516    | US-09-252-991A-211   | Sequence 211, App   |
| 11         | 18    | 3.3         | 2058   | US-09-489-039A-5810  | Sequence 5810, Ap   |
| 12         | 18    | 3.3         | 2325   | US-09-252-991A-218   | Sequence 218, App   |
| 13         | 18    | 3.3         | 2784   | US-09-252-991A-194   | Sequence 194, App   |
| 14         | 18    | 3.3         | 2946   | US-09-252-991A-227   | Sequence 227, App   |
| 15         | 18    | 3.3         | 21040  | US-08-961-527-555    | Sequence 55, Appli  |
| 16         | 17    | 3.1         | 306    | US-09-313-294A-7582  | Sequence 7582, Ap   |
| 17         | 17    | 3.1         | 419    | US-09-621-976-609    | Sequence 609, Appli |
| 18         | 17    | 3.1         | 426    | US-09-252-991A-13493 | Sequence 13493, A   |
| 19         | 17    | 3.1         | 768    | US-09-489-039A-1904  | Sequence 1904, Ap   |
| 20         | 17    | 3.1         | 790    | US-08-393-985-22     | Sequence 22, Appli  |
| 21         | 17    | 3.1         | 807    | US-09-252-991A-13398 | Sequence 13398, A   |
| 22         | 17    | 3.1         | 948    | US-09-221-017B-25    | Sequence 25, Appli  |
| 23         | 17    | 3.1         | 1605   | US-09-930-218-10     | Sequence 10, Appli  |
| 24         | 17    | 3.1         | 1822   | US-09-220-132-54     | Sequence 54, Appli  |
| 25         | 17    | 3.1         | 1930   | US-09-919-172-3      | Sequence 3, Appli   |
| 26         | 17    | 3.1         | 1930   | US-09-976-594-957    | Sequence 957, Appli |
| 27         | 17    | 3.1         | 2009   | US-08-333-356-9      | Sequence 9, Appli   |

|    |    |     |        |   |                     |                    |
|----|----|-----|--------|---|---------------------|--------------------|
| 28 | 17 | 3.1 | 2009   | 1 | US-08-463-694-9     | Sequence 9, Appli  |
| 29 | 17 | 3.1 | 2009   | 1 | US-08-694-501-9     | Sequence 9, Appli  |
| 30 | 17 | 3.1 | 2012   | 2 | US-08-484-200-3     | Sequence 3, Appli  |
| 31 | 17 | 3.1 | 2097   | 1 | US-08-393-985-1     | Sequence 1, Appli  |
| 32 | 17 | 3.1 | 3003   | 3 | US-09-423-340-1     | Sequence 1, Appli  |
| 33 | 17 | 3.1 | 3003   | 3 | US-09-820-155-1     | Sequence 1, Appli  |
| 34 | 17 | 3.1 | 3259   | 5 | PCT-US95-03747-1    | Sequence 1, Appli  |
| 35 | 17 | 3.1 | 6463   | 2 | US-08-962-284-3     | Sequence 3, Appli  |
| 36 | 17 | 3.1 | 8906   | 2 | US-08-826-267-1     | Sequence 1, Appli  |
| 37 | 17 | 3.1 | 13011  | 2 | US-08-791-849A-14   | Sequence 14, Appli |
| 38 | 17 | 3.1 | 15213  | 4 | US-08-961-527-26    | Sequence 26, Appli |
| 39 | 17 | 3.1 | 112132 | 4 | US-09-741-150-3     | Sequence 3, Appli  |
| 40 | 17 | 3.1 | 112132 | 4 | US-10-160-187-3     | Sequence 3, Appli  |
| 41 | 16 | 2.9 | 20     | 4 | US-09-081-385-123   | Sequence 123, App  |
| 42 | 16 | 2.9 | 163    | 4 | US-09-833-381-575   | Sequence 575, App  |
| 43 | 16 | 2.9 | 281    | 4 | US-09-313-294A-5618 | Sequence 5618, Ap  |
| 44 | 16 | 2.9 | 285    | 4 | US-09-313-294A-6577 | Sequence 6577, Ap  |
| 45 | 16 | 2.9 | 288    | 1 | US-08-438-753B-23   | Sequence 23, Appli |

# ALIGNMENTS

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RESULT 1
US-08-705-771-1
; Sequence 1, Application US/08705771
; Patent No. 6054289
; GENERAL INFORMATION:
; APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,
; APPLICANT: Jian Ni and Jing-Shan Hu
; TITLE OF INVENTION: Human Genes, Sequences and
; TITLE OF INVENTION: Expression Products
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08705,771
; FILING DATE: August 30, 1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MULLINS, J.G.
; REGISTRATION NUMBER: 33,073
; REFERENCE/DOCKET NUMBER: 325800-346 (PFI96)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 973-994-1700
; TELEFAX: 973-994-1744
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 550 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-705-771-1

Query Match 100.0%; Score 550; DB 3; Length 550;
Best Local Similarity 100.0%; Pred. No. 4.4e-267;
Matches 550; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGAGCCACCATGATGTTTCAAGAGGCGCTTCCATGCGCAAGAGGCGGTGTG 60
DB 1 CACGAGCCACCATGATGTTTCAAGAGGCGCTTCCATGCGCAAGAGGCGGTGTG 60

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QY 61 GTGCGGTGAAAAGACCAAGCAGGGGTGACGGAGCACTGAGAGAACCAAGAGAGGG 120  
 DB 61 GTGCGGTGAAAAGACCAAGCAGGGGTGACGGAGCACTGAGAGAACCAAGAGAGGG 120  
 QY 121 TCATGTATGTGGAGCCAAAGACCAAGAGATGTTTACAGAGCGTGAACCTCAGTGGCG 180  
 DB 121 TCATGTATGTGGAGCCAAAGACCAAGAGATGTTTACAGAGCGTGAACCTCAGTGGCG 180  
 QY 181 AGAAGACCAAGAGCAGGGCCCAAGCGCTGTGAGCAAGCGTGTGTAGACAGCTCAACACTG 240  
 DB 181 AGAAGACCAAGAGCAGGGCCCAAGCGCTGTGAGCAAGCGTGTGTAGACAGCTCAACACTG 240  
 QY 241 TGGCCCAACCAAGACCGGTGAGAGGAGGAGAACTGCGGTGACCTCGGGGTGTGTCGGA 300  
 DB 241 TGGCCCAACCAAGACCGGTGAGAGGAGGAGAACTGCGGTGACCTCGGGGTGTGTCGGA 300  
 QY 301 AGAGAGACTTGAAGGCGCATCTGCCCCCAAGAGAGGTGAGCGATCCAAAGAGAAAGAG 360  
 DB 301 AGAGAGACTTGAAGGCGCATCTGCCCCCAAGAGAGGTGAGCGATCCAAAGAGAAAGAG 360  
 QY 361 AAGTGCACAGAGAGGCGCCAGAGTGGGGGAGACTAGAGGGCTACAGGCCAGCGTGAATGAC 420  
 DB 361 AAGTGCACAGAGAGGCGCCAGAGTGGGGGAGACTAGAGGGCTACAGGCCAGCGTGAATGAC 420  
 QY 421 CTGAAGAGGCGCTCTGCTGTGAGCAACCATCCCTCTAGCAACAGAGAGTGGCGGCTT 480  
 DB 421 CTGAAGAGGCGCTCTGCTGTGAGCAACCATCCCTCTAGCAACAGAGAGTGGCGGCTT 480  
 QY 481 GAGTGACATGCGGGGTGCCACAGCTCTGCTGTGTCCTGTGACACCTTGGCTGTGTC 540  
 DB 481 GAGTGACATGCGGGGTGCCACAGCTCTGCTGTGTCCTGTGACACCTTGGCTGTGTC 540  
 QY 541 ACCTGTGCTG 550  
 DB 541 ACCTGTGCTG 550

RESULT 2  
 US-09-417-540-1  
 Sequence 1, Application US/09417540  
 Patent No. 6639052  
 GENERAL INFORMATION:  
 APPLICANT: Paul Moore, Reiner Genetz, Hongjin Ji,  
 Jian Ni and Jing-Shan Hu  
 TITLE OF INVENTION: Human Genes, Sequences and  
 Expression Products  
 NUMBER OF SEQUENCES: 22  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
 CECCHI, STEWART & OLSTEIN  
 STREET: 6 BECKER FARM ROAD  
 CITY: ROSELAND  
 STATE: NEW JERSEY  
 COUNTRY: USA  
 ZIP: 07068  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5 INCH DISKETTE  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: MS-DOS  
 SOFTWARE: WORD PERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/417,540  
 FILING DATE: 14-Oct-1999  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/705,771  
 FILING DATE: August 30, 1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: MULLINS, J.G.  
 REGISTRATION NUMBER: 33,073  
 REFERENCE/DOCKET NUMBER: 325800-346 (P196)  
 TELECOMMUNICATION INFORMATION:

TELEPHONE: 973-994-1700  
 TELEFAX: 973-994-1744  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 550 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA  
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 US-09-417-540-1

Query Match 100.0%; Score 550; DB 4; Length 550;  
 Best Local Similarity 100.0%; Pred. No. 4.4e-267;  
 Matches 550; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGAGCCACCATGATGTTTCAAGAAAGGCTTCTCCATGCGCAAGAGAGGCGTGTG 60  
 DB 1 CACGAGCCACCATGATGTTTCAAGAAAGGCTTCTCCATGCGCAAGAGAGGCGTGTG 60  
 QY 61 GTGCGGTGAAAAGACCAAGCAGGGGTGACGGAGCGACTGAGAAACCAAGAGAGGG 120  
 DB 61 GTGCGGTGAAAAGACCAAGCAGGGGTGACGGAGCGACTGAGAAACCAAGAGAGGG 120  
 QY 121 TCATGTATGTGGAGCCAAAGACCAAGAGATGTTTACAGAGCGTGAACCTCAGTGGCG 180  
 DB 121 TCATGTATGTGGAGCCAAAGACCAAGAGATGTTTACAGAGCGTGAACCTCAGTGGCG 180  
 QY 181 AGAAGACCAAGAGAGGCGCCAGCGCTGTGAGCAAGCGTGTGTGAGAGCGTCAACACTG 240  
 DB 181 AGAAGACCAAGAGAGGCGCCAGCGCTGTGAGCAAGCGTGTGTGAGAGCGTCAACACTG 240  
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 DB 241 TGGCCCAACCAAGACCGGTGAGAGGAGGAGAACTGCGGTGACCTCGGGGTGTGTCGGA 300  
 QY 301 AGAGAGACTTGAAGGCGCATCTGCCCCCAAGAGAGGTGAGCGATCCAAAGAGAAAGAG 360  
 DB 301 AGAGAGACTTGAAGGCGCATCTGCCCCCAAGAGAGGTGAGCGATCCAAAGAGAAAGAG 360  
 QY 361 AAGTGCACAGAGAGGCGCCAGAGTGGGGGAGACTAGAGGGCTACAGGCCAGCGTGAATGAC 420  
 DB 361 AAGTGCACAGAGAGGCGCCAGAGTGGGGGAGACTAGAGGGCTACAGGCCAGCGTGAATGAC 420  
 QY 421 CTGAAGAGGCGCTCTGCTGTGAGCAACCATCCCTCTAGCAACAGAGAGTGGCGGCTT 480  
 DB 421 CTGAAGAGGCGCTCTGCTGTGAGCAACCATCCCTCTAGCAACAGAGAGTGGCGGCTT 480  
 QY 481 GAGTGACATGCGGGGTGCCACAGCTCTGCTGTGTCCTGTGACACCTTGGCTGTGTC 540  
 DB 481 GAGTGACATGCGGGGTGCCACAGCTCTGCTGTGTCCTGTGACACCTTGGCTGTGTC 540  
 QY 541 ACCTGTGCTG 550  
 DB 541 ACCTGTGCTG 550

RESULT 3  
 PCT-US95-08295-1  
 Sequence 1, Application PC/TUS9508295  
 GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: BREAST SPECIFIC GENES AND PROTEINS  
 NUMBER OF SEQUENCES: 30  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/08295  
 FILING DATE: 30-JUN-1995  
 CLASSIFICATION:

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; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 786 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
PCT-US95-08295-1

Query Match      20.0%; Score 110; DB 5; Length 786;
Best Local Similarity 100.0%; Pred. No. 8.4e-46;
Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 AGGCGCTGTCGGTCGGTCGAAAAAGACCAACGAGGGGCTGACGAGACGCTGAGAAGA 108
DB 132 AGGCGCTGTCGGTCGGTCGAAAAAGACCAACGAGGGGCTGACGAGACGCTGAGAAGA 191
DB 109 CCAAGAGAGGGGCTCATGTATGTGGAGCCAAAGACCAAGAGATGTGTA 158
DB 192 CCAAGAGAGGGGCTCATGTATGTGGAGCCAAAGACCAAGAGATGTGTA 241

RESULT 4
US-09-976-594-999
; Sequence 999, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LAYER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976.594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 999
; LENGTH: 1792
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 678004CB1
US-09-976-594-999

Query Match      4.0%; Score 22; DB 4; Length 1792;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 351 GAGAAAGAGAAAGTGCGACAGG 372
DB 288 GAGAAAGAGAAAGTGCGACAGG 309

RESULT 5
PCT-US95-08295-25
; Sequence 25, Application PC/TUS9508295
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: BREAST SPECIFIC GENES AND PROTEINS
; NUMBER OF SEQUENCES: 30
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08295
; FILING DATE: 30-JUN-1995
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 25
;   TYPE: nucleic acid
;   STRANDEDNESS: single
```

```

;   LENGTH: 21 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: other nucleic acid
;   DESCRIPTION: /desc = "PRIMER"
PCT-US95-08295-25

Query Match      3.8%; Score 21; DB 5; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GCCACCATGATGTTTCAAG 26
DB 1 GCCACCATGATGTTTCAAG 21

RESULT 6
PCT-US95-08295-29
; Sequence 29, Application PC/TUS9508295
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: BREAST SPECIFIC GENES AND PROTEINS
; NUMBER OF SEQUENCES: 30
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08295
; FILING DATE: 30-JUN-1995
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 36 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: other nucleic acid
;   DESCRIPTION: /desc = "PRIMER"
PCT-US95-08295-29

Query Match      3.5%; Score 19; DB 5; Length 36;
Best Local Similarity 100.0%; Pred. No. 4.5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 CATGATGTTTCAAGAG 29
DB 18 CATGATGTTTCAAGAG 36

RESULT 7
PCT-US95-08295-30/c
; Sequence 30, Application PC/TUS9508295
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: BREAST SPECIFIC GENES AND PROTEINS
; NUMBER OF SEQUENCES: 30
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08295
; FILING DATE: 30-JUN-1995
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 27 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
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TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "PRIMER"  
PCT-US95-08295-30

Query Match 3.3%; Score 18; DB 5; Length 27;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 378 CAGAGTGGGGGAGACTAG 395  
DB 27 CAGAGTGGGGGAGACTAG 10

RESULT 8  
PCT-US95-08295-26/C  
Sequence 26, Application PC/TUS9508295  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: BREAST SPECIFIC GENES AND PROTEINS  
NUMBER OF SEQUENCES: 30  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/08295  
FILING DATE: 30-JUN-1995  
CLASSIFICATION:  
INFORMATION FOR SEQ ID NO: 26:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "PRIMER"  
PCT-US95-08295-26

Query Match 3.3%; Score 18; DB 5; Length 28;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 375 GCCCAGAGTGGGGGAGAC 392  
DB 28 GCCCAGAGTGGGGGAGAC 11

RESULT 9  
US-09-621-976-8512  
Sequence 8512, Application US/09621976  
Patent No. 6639063  
GENERAL INFORMATION:  
APPLICANT: Dumas Malne Edwards, J.B.  
APPLICANT: Jobert, S.  
APPLICANT: Giordano, J.Y.  
TITLE OF INVENTION: ESTE and Encoded Human Proteins.  
FILE REFERENCE: GENSET.054PR2  
CURRENT APPLICATION NUMBER: US/09/621,976  
CURRENT FILING DATE: 2000-07-21  
NUMBER OF SEQ ID NOS: 19335  
SOFTWARE: Patent.pm  
SEQ ID NO 8512  
LENGTH: 427  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-621-976-8512

Query Match 3.3%; Score 18; DB 4; Length 427;  
Best Local Similarity 100.0%; Pred. No. 15;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 358 AGGAAGTGGCAGAGGAGG 375  
DB 296 AGGAAGTGGCAGAGGAGG 313

RESULT 10  
US-09-252-991A-211  
Sequence 211, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 211  
LENGTH: 516  
TYPE: DNA  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-211

Query Match 3.3%; Score 18; DB 4; Length 516;  
Best Local Similarity 100.0%; Pred. No. 15;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 44 CAAGAAGGCGGTGTGGG 61  
DB 20 CAAGAAGGCGGTGTGGG 37

RESULT 11  
US-09-489-039A-5810  
Sequence 5810, Application US/09489039A  
Patent No. 6610836  
GENERAL INFORMATION:  
APPLICANT: Gary Breton et. al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
FILE REFERENCE: 2709.2004001  
CURRENT APPLICATION NUMBER: US/09/489,039A  
CURRENT FILING DATE: 2000-01-27  
PRIOR APPLICATION NUMBER: US 60/117,747  
PRIOR FILING DATE: 1999-01-29  
NUMBER OF SEQ ID NOS: 14342  
SEQ ID NO 5810  
LENGTH: 2058  
TYPE: DNA  
ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-5810

Query Match 3.3%; Score 18; DB 4; Length 2058;  
Best Local Similarity 100.0%; Pred. No. 16;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 277 CGGTACCTCCGGGGTGG 294  
DB 767 CGGTACCTCCGGGGTGG 784

RESULT 12  
US-09-252-991A-218  
Sequence 218, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: ABRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 218  
LENGTH: 2325  
TYPE: DNA  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-218

Query Match 3.3%; Score 18; DB 4; Length 2325;  
Best Local Similarity 100.0%; Pred. No. 16;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 44 CAAGAGGCGGTGGG 61  
DB 955 CAAGAGGCGGTGGG 972

RESULT 13  
US-09-252-991A-194/C  
Sequence 194, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 194  
LENGTH: 2784  
TYPE: DNA  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-194

Query Match 3.3%; Score 18; DB 4; Length 2784;  
Best Local Similarity 100.0%; Pred. No. 16;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 44 CAAGAGGCGGTGGG 61  
DB 1951 CAAGAGGCGGTGGG 1934

RESULT 14  
US-09-252-991A-227  
Sequence 227, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 227  
LENGTH: 2946  
TYPE: DNA

ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-227

Query Match 3.3%; Score 18; DB 4; Length 2946;  
Best Local Similarity 100.0%; Pred. No. 16;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 44 CAAGAGGCGGTGGG 61  
DB 1041 CAAGAGGCGGTGGG 1058

RESULT 15  
US-08-961-527-55/C  
Sequence 55, Application US/08961527  
Patent No. 6420135  
GENERAL INFORMATION:  
APPLICANT: Charles Kunach  
TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences  
NUMBER OF SEQUENCES: 391  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44Mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/961,527  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Brookes, A. Anders  
REGISTRATION NUMBER: 36,373  
REFERENCE/DOCKET NUMBER: PB340P1  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 55:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 21040 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
US-08-961-527-55

Query Match 3.3%; Score 18; DB 4; Length 21040;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 358 AGAAGTGCGAGAGG 375  
DB 5832 AGAAGTGCGAGAGG 5815

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 24, 2004, 13:14:50 ; Search time 293 Seconds  
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8531.059 Million cell updates/sec

Title: US-09-017-715A-1

Perfect score: 550  
Sequence: 1 CACGAGCCACCATGATGATTT.....TGGCTCTTCACCTGTGCTG 550

Scoring table: OLIGO\_NUC  
Gapop 60.0, Gapext 60.0

Searched: 2953838 seqs, 2272363821 residues

Word size: 0

Total number of hits satisfying chosen parameters: 5907676

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database:

Published Applications NA:\*

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- 2: /cgn2\_6/ptodata/1/pubpna/FCI\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*
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- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:\*
- 16: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq:\*
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- 18: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*
- 19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description        |
|------------|-------|-------------|--------|----|--------------------|
| 1          | 550   | 100.0       | 550    | 9  | US-09-954-531-613  |
| 2          | 550   | 100.0       | 550    | 16 | US-10-453-478-1    |
| 3          | 394   | 71.6        | 796    | 13 | US-09-925-298-171  |
| 4          | 394   | 71.6        | 796    | 15 | US-10-102-806-171  |
| 5          | 368   | 66.9        | 479    | 10 | US-09-918-995-2705 |
| 6          | 292   | 53.1        | 720    | 15 | US-10-097-340-297  |
| 7          | 273   | 49.6        | 720    | 13 | US-10-282-174-469  |
| 8          | 193   | 35.1        | 478    | 13 | US-09-925-298-172  |
| 9          | 193   | 35.1        | 478    | 13 | US-10-102-806-172  |
| 10         | 121   | 22.0        | 5666   | 13 | US-10-282-174-72   |
| 11         | 121   | 22.0        | 5666   | 13 | US-10-282-174-73   |
| 12         | 110   | 20.0        | 786    | 15 | US-10-267-849-1    |
| 13         | 102   | 18.5        | 4606   | 13 | US-10-240-425-388  |
| 14         | 102   | 18.5        | 6012   | 13 | US-10-282-174-483  |

|   |    |    |      |        |    |                      |                    |
|---|----|----|------|--------|----|----------------------|--------------------|
| C | 15 | 90 | 16.4 | 137    | 15 | US-10-029-386-23457  | Sequence 23457, A  |
| C | 16 | 90 | 16.4 | 521    | 15 | US-10-029-386-9757   | Sequence 9757, Ap  |
| C | 17 | 90 | 16.4 | 689    | 13 | US-10-027-632-134043 | Sequence 134043, A |
| C | 18 | 90 | 16.4 | 689    | 13 | US-10-027-632-134044 | Sequence 134044, A |
| C | 19 | 90 | 16.4 | 689    | 16 | US-10-027-632-134043 | Sequence 134043, A |
| C | 20 | 90 | 16.4 | 689    | 16 | US-10-027-632-134044 | Sequence 134044, A |
| C | 21 | 85 | 15.5 | 132    | 15 | US-10-029-386-25796  | Sequence 25796, A  |
| C | 22 | 85 | 15.5 | 502    | 15 | US-10-029-386-12096  | Sequence 12096, A  |
| C | 23 | 85 | 15.5 | 502    | 13 | US-09-823-245A-262   | Sequence 262, Ap   |
| C | 24 | 68 | 12.4 | 249    | 9  | US-09-954-531-1217   | Sequence 1217, Ap  |
| C | 25 | 27 | 4.9  | 5883   | 15 | US-10-311-455-1705   | Sequence 1705, Ap  |
| C | 26 | 26 | 4.7  | 60     | 10 | US-09-908-975-12205  | Sequence 12205, A  |
| C | 27 | 22 | 4.0  | 416    | 10 | US-09-918-995-8786   | Sequence 8786, Ap  |
| C | 28 | 22 | 4.0  | 1086   | 13 | US-10-282-122A-17571 | Sequence 17571, Ap |
| C | 29 | 22 | 4.0  | 1326   | 16 | US-10-414-692-2      | Sequence 2, Appl   |
| C | 30 | 22 | 4.0  | 1851   | 13 | US-10-027-632-98179  | Sequence 98179, A  |
| C | 31 | 22 | 4.0  | 1851   | 13 | US-10-027-632-98180  | Sequence 98180, A  |
| C | 32 | 22 | 4.0  | 1851   | 16 | US-10-027-632-98179  | Sequence 98179, A  |
| C | 33 | 22 | 4.0  | 1851   | 16 | US-10-027-632-98180  | Sequence 98180, A  |
| C | 34 | 22 | 4.0  | 1854   | 13 | US-10-027-632-97456  | Sequence 97456, A  |
| C | 35 | 22 | 4.0  | 1854   | 16 | US-10-027-632-97456  | Sequence 97456, A  |
| C | 36 | 22 | 4.0  | 3301   | 9  | US-09-954-456-554    | Sequence 554, Ap   |
| C | 37 | 22 | 4.0  | 3301   | 13 | US-10-655-847-18     | Sequence 18, Appl  |
| C | 38 | 22 | 4.0  | 3301   | 13 | US-10-160-807-18     | Sequence 18, Appl  |
| C | 39 | 22 | 4.0  | 104245 | 13 | US-10-655-847-4      | Sequence 4, Appl   |
| C | 40 | 22 | 4.0  | 104245 | 13 | US-10-160-807-4      | Sequence 4, Appl   |
| C | 41 | 21 | 3.8  | 21     | 15 | US-10-267-849-25     | Sequence 25, Appl  |
| C | 42 | 20 | 3.6  | 1830   | 13 | US-10-282-122A-25435 | Sequence 25435, A  |
| C | 43 | 19 | 3.5  | 19     | 13 | US-10-282-174-28     | Sequence 28, Appl  |
| C | 44 | 19 | 3.5  | 23     | 9  | US-09-767-536-5      | Sequence 5, Appl   |
| C | 45 | 19 | 3.5  | 36     | 15 | US-10-267-849-29     | Sequence 29, Appl  |

## ALIGNMENTS

US-09-954-531-613  
Sequence 613, Application US/09954531  
Patent No. US20020165180A1  
GENERAL INFORMATION:  
APPLICANT: Weaver, Zoe  
TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cance  
FILE REFERENCE: 689290-77  
CURRENT APPLICATION NUMBER: US/09/954,531  
CURRENT FILING DATE: 2002-05-02  
PRIOR APPLICATION NUMBER: US/60/233,133  
PRIOR FILING DATE: 2000-09-18  
PRIOR APPLICATION NUMBER: US/60/234,009  
PRIOR FILING DATE: 2000-09-20  
PRIOR APPLICATION NUMBER: US/60/234,034  
PRIOR FILING DATE: 2000-09-20  
PRIOR APPLICATION NUMBER: US/60/234,509  
PRIOR FILING DATE: 2000-09-22  
PRIOR APPLICATION NUMBER: US/60/234,567  
PRIOR FILING DATE: 2000-09-22  
NUMBER OF SEQ ID NOS: 1392  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 613  
LENGTH: 550  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-954-531-613

Query Match: 100.0%; Score 550; DB 9; Length 550;  
Best Local Similarity: 100.0%; Pred. No. 1.1e-274; Indels 0; Gaps 0;  
Matches 550; Conservative 0; Mismatches 0;

1 CACGAGCCACCATGATGATTTTCAAGAGGCGTTCTCATGCCCAAGAGGCGGTGTGG 60  
1 CACGAGCCACCATGATGATTTTCAAGAGGCGTTCTCATGCCCAAGAGGCGGTGTGG 60

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QY 61 GTGCGGTGAAAAGACCAAGAGGGGTGACGGAGACGCTGAGAACCAAGAGAGGGG 120
DB 61 GTGCGGTGAAAAGACCAAGAGGGGTGACGGAGACGCTGAGAACCAAGAGAGGGG 120
QY 121 TCATGTATGTGGAGGCCAAGACCAAGAGATTTGTAGACAGCTGACCTCAGTGGCG 180
DB 121 TCATGTATGTGGAGGCCAAGACCAAGAGATTTGTAGACAGCTGACCTCAGTGGCG 180
QY 181 AGAAGACCAAGAGAGCGGCCAACGCGGTGACAGAGCTGTGTGAGACGCTCAACTG 240
DB 181 AGAAGACCAAGAGAGCGGCCAACGCGGTGACAGAGCTGTGTGAGACGCTCAACTG 240
QY 241 TGCCCAACCAAGACCGGTGAGAGCGGAGAACATCGCGGTACCTCGGGGGTGTGGCA 300
DB 241 TGCCCAACCAAGACCGGTGAGAGCGGAGAACATCGCGGTACCTCGGGGGTGTGGCA 300
QY 301 AGAGAGACTTGAAGGCCATGTGCCCCCAACAGAGGGGTGAGGCTCAAGAGAAAGAG 360
DB 301 AGAGAGACTTGAAGGCCATGTGCCCCCAACAGAGGGGTGAGGCTCAAGAGAAAGAG 360
QY 361 AAGTGCACAGAGAGCGGCCAGAGTGGGGAGACTAGAGGGCTACAGCGCAGCGTGAATGAC 420
DB 361 AAGTGCACAGAGAGCGGCCAGAGTGGGGAGACTAGAGGGCTACAGCGCAGCGTGAATGAC 420
QY 421 CTGAAGAGGCTCTCTGCTTGTGACACCATCCCTCTAGACACAGAGATGGCCGCTT 480
DB 421 CTGAAGAGGCTCTCTGCTTGTGACACCATCCCTCTAGACACAGAGATGGCCGCTT 480
QY 481 GAGTGACATGCGGGTCCCAAGCTCTGCTCTGTCTGCTGAGACACCTTGGCTGTCC 540
DB 481 GAGTGACATGCGGGTCCCAAGCTCTGCTCTGTCTGCTGAGACACCTTGGCTGTCC 540
QY 541 ACCTGTGCTG 550
DB 541 ACCTGTGCTG 550

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## RESULT 2

US-10-453-478-1

Sequence 1, Application US/10453478  
 Publication No. US20030208043A1  
 GENERAL INFORMATION:

APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,  
 Jian Ni and Jing-Shan Hu

TITLE OF INVENTION: Human Genes, Sequences and  
 Expression Products

NUMBER OF SEQUENCES: 22  
 CORRESPONDENCE ADDRESS:  
 CARELLA, BYRNE, BAIN, GILFILLAN,  
 CECCHI, STEWART & OLSTEIN

STREET: 6 BECKER FARM ROAD

CITY: ROSELAND

STATE: NEW JERSEY

COUNTRY: USA

ZIP: 07068

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 INCH DISKETTE

OPERATING SYSTEM: MS-DOS

SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/453,478

FILING DATE: 04-Jun-2003

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/705,771

FILING DATE: August 30, 1996

ATTORNEY/AGENT INFORMATION:

NAME: MULLINS, J.G.

REGISTRATION NUMBER: 33,073

REFERENCE/DOCKET NUMBER: 325800-346 (PFI96)

TELECOMMUNICATION INFORMATION:

TELEPHONE: 973-994-1700

TELEFAX: 973-994-1744  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 550 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA  
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 US-10-453-478-1

Query Match 100.0%; Score 550; DB 16; Length 550;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-274;  
 Matches 550; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 CACGAGCCACCATGATGTTTCAAGAAAGGCTTCTCATGCGCAAGAGGGCTGTGG 60
DB 1 CACGAGCCACCATGATGTTTCAAGAAAGGCTTCTCATGCGCAAGAGGGCTGTGG 60
QY 61 GTGCGGTGAAAAGACCAAGAGGGGTGACGGAGACGCTGAGAACCAAGAGAGGGG 120
DB 61 GTGCGGTGAAAAGACCAAGAGGGGTGACGGAGACGCTGAGAACCAAGAGAGGGG 120
QY 121 TCATGTATGTGGAGGCCAAGACCAAGAGATTTGTAGACAGCTGACCTCAGTGGCG 180
DB 121 TCATGTATGTGGAGGCCAAGACCAAGAGATTTGTAGACAGCTGACCTCAGTGGCG 180
QY 181 AGAAGACCAAGAGAGCGGCCAACGCGGTGACAGAGCTGTGTGAGACGCTCAACTG 240
DB 181 AGAAGACCAAGAGAGCGGCCAACGCGGTGACAGAGCTGTGTGAGACGCTCAACTG 240
QY 241 TGCCCAACCAAGACCGGTGAGAGCGGAGAACATCGCGGTACCTCGGGGGTGTGGCA 300
DB 241 TGCCCAACCAAGACCGGTGAGAGCGGAGAACATCGCGGTACCTCGGGGGTGTGGCA 300
QY 301 AGAGAGACTTGAAGGCCATGTGCCCCCAACAGAGGGGTGAGGCTCAAGAGAAAGAG 360
DB 301 AGAGAGACTTGAAGGCCATGTGCCCCCAACAGAGGGGTGAGGCTCAAGAGAAAGAG 360
QY 361 AAGTGCACAGAGAGCGGCCAGAGTGGGGAGACTAGAGGGCTACAGCGCAGCGTGAATGAC 420
DB 361 AAGTGCACAGAGAGCGGCCAGAGTGGGGAGACTAGAGGGCTACAGCGCAGCGTGAATGAC 420
QY 421 CTGAAGAGGCTCTCTGCTTGTGACACCATCCCTCTAGACACAGAGATGGCCGCTT 480
DB 421 CTGAAGAGGCTCTCTGCTTGTGACACCATCCCTCTAGACACAGAGATGGCCGCTT 480
QY 481 GAGTGACATGCGGGTCCCAAGCTCTGCTCTGTCTGCTGAGACACCTTGGCTGTCC 540
DB 481 GAGTGACATGCGGGTCCCAAGCTCTGCTCTGTCTGCTGAGACACCTTGGCTGTCC 540
QY 541 ACCTGTGCTG 550
DB 541 ACCTGTGCTG 550

```

## RESULT 3

US-09-925-298-171

Sequence 171, Application US/09925298  
 Publication No. US20020039764A1  
 GENERAL INFORMATION:

APPLICANT: Rosen et al.  
 TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies

FILE REFERENCE: PA103

CURRENT APPLICATION NUMBER: US/09/925,298

PRIOR FILING DATE: 2001-08-10

PRIOR APPLICATION NUMBER: PCT/US00/05881

PRIOR FILING DATE: 2000-03-08

PRIOR APPLICATION NUMBER: 60/124,270

PRIOR FILING DATE: 1999-03-12

NUMBER OF SEQ ID NOS: 846

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 171





|    |     |   |     |
|----|-----|---|-----|
| Db | 24  | TGTGGCCACCAAGACCGTGGAGGAGGAGAAACATCCGGCTACCTCCGGGGTGTGTGCG        | 300 |
| Qy | 299 | CAAGAGGAGACTTGAAGCCATCTTGCCCCCAACAGAGGGTGAAGCATCCAAAGAGAAAGA      | 358 |
| Db | 301 | CAAGAGGAGACTTGAAGCCCATCTTGCCCCCAACAGAGGGGTGAAGCATCCAAAGAGAAAGA    | 360 |
| Qy | 359 | GGAAGTGGCAGAGAGAGGCCCAAGTGTGGGGGAAACTTGAAGGGCTTACAGGCCAAGCGTGGATG | 418 |
| Db | 361 | GGAAGTGGCAGAGAGAGGCCCAAGTGTGGGGGAAACTTGAAGGGCTTACAGGCCAAGCGTGGATG | 420 |
| Qy | 419 | ACCTGAAGAGCGTCTCTGTGCTTGGACACCATCCCTCTTAGCAACAAGAGTGCCTGGC        | 477 |
| Db | 421 | ACCTGAAGAGCGTCTCTCTGTGCTTGGACACCATCCCTCTTAGCAACAAGAGTGCCTGGC      | 479 |

```

RESULT 6
US-10-097-340-297
Sequence 297, Application US/10097340
Publication No. US20030087250A1
GENERAL INFORMATION:
APPLICANT: John MONAHAN
APPLICANT: Manjula GANNANAVARAPU
APPLICANT: Sebastian HOERSCH
APPLICANT: Shubhangi KAMATKAR
APPLICANT: Steve G. KOVATS
APPLICANT: Rachel E. MEYERS
APPLICANT: Michael MORRISEY
APPLICANT: Peter OLANDT
APPLICANT: Ami SEN
APPLICANT: Peter VEIRY
APPLICANT: Gordon B. MILLS
APPLICANT: Robert C. BAST, Jr.
APPLICANT: Karen LU
APPLICANT: Rosemarie SCHMANDT
APPLICANT: Xumei ZHAO
APPLICANT: Karen GLATT
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
Title Of Invention: Assessment, Prevention, and Therapy of Ovarian Cancer
FILE REFERENCE: WMI-030
CURRENT APPLICATION NUMBER: US/10/097,340
CURRENT FILING DATE: 2002-03-14
PRIOR APPLICATION NUMBER: 60/276,025
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 60/325,149
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/276,026
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 60/324,967
PRIOR FILING DATE: 2001/09/26
PRIOR APPLICATION NUMBER: 60/311,732
PRIOR FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: 60/325,102
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/323,580
PRIOR FILING DATE: 2001-09-19
NUMBER OF SEQ ID NOS: 363
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 297
LENGTH: 720
TYPE: DNA
ORGANISM: Homo sapiens
US-10-097-340-297

```

|                       |              |                     |               |             |
|-----------------------|--------------|---------------------|---------------|-------------|
| Query Match           | 53.1%        | Score 292;          | DB 15;        | Length 720; |
| Best Local Similarity | 99.3%;       | Pred. No. 5.2e-141; |               |             |
| Matches 442;          | Conservative | 0;                  | Mismatches 3; | Indels 0;   |
|                       |              |                     |               | Gaps 0      |

QY 49 AGGGCGTGTGGGTGCGTGGAAAAGACCAAGACAGGGGGTACGGAAGCGCTGAGAGA 108  
86 AGGCGCTGTGGTGGGTGCGTGGAAAAGACCAAGACAGGGGGTACGGAAGCGCTGAGAGA 145  
QY 109 CCAAGAGAGGGGTCATGTATGTGGGAGCCAAAGCAAGGAGAAATGTTGTACAGGCGCTGA 168

|    |     |   |      |
|----|-----|---|------|
| Db | 146 | CCAAAGGAGGGGGCTCATGTATGTGGAGGCCAAGACCAAGAGAAATGTTGTACAGAGCCTGA  | 2050 |
| Oy | 169 | CCTCAGTGGCCGGAAGAACCAAGAGAGCAGGCCAACGCGCTGTAGCAAGGCTGTGTGTAGCA  | 228  |
| Db | 206 | CCTCAATGGGCGGAAGAGACCAAGAGAGCAGGCCAACGCGGTGTAGCAAGGCTGTGTGTAGCA | 2650 |
| Oy | 229 | GCCTCAACACTGTGGCCACCAAGACCGTGTGAGAGAGGCGGAGAAACATGCGCGTCACTCCG  | 288  |
| Db | 266 | GCCTCAACACTGTGGCCACCAAGACCGTGTGAGAGAGGCGGAGAAACATGCGCGTCACTCCG  | 325  |
| Oy | 289 | GGGTGGTGGCCAAAGAGAGCACTTGAAGCCATGCCCCCAACAGAGAGGTGTAGGCAATCCA   | 348  |
| Db | 326 | GGGTGGTGGCCAAAGAGAGCACTTGAAGCCATGCCCCCAACAGAGAGGTGTGTGCAATCCA   | 385  |
| Oy | 349 | AAGAGAAAGAGAAAGTGGCAGAGAGAGGCCAGAGTGGGGGAGACTTAAAGGAGCTTACAGGCC | 408  |
| Db | 386 | AAGAGAAAGAGAGAGTGGCAGAGAGAGGCCAGAGTGGGGGAGACTTAAAGGAGCTTACAGGCC | 445  |
| Oy | 409 | AGCGTGAATGACCTGAAGAGCGCTCTCTTGCCCTTGTGAACCATCCCTCCTAGACAAAG     | 468  |
| Db | 446 | AGCGTGAATGACCTGAAGAGCGCTCTCTTGCCCTTGTGAACCATCCCTCCTAGACAAAG     | 505  |
| Oy | 469 | AGTGGCCGCGCTTGAATGACATGCGG                                      | 493  |
| Db | 506 | AGTGGCCGCGCTTGAATGACATGCGG                                      | 530  |

RESULT 7  
US-10-282-174-469  
Sequence 469, Application US/10282174  
Publication No. US20030224380A1  
GENERAL INFORMATION:  
APPLICANT: Becker, Kenneth David  
APPLICANT: Velicelabi, Gomu  
APPLICANT: Elliot, Kathryn J.  
APPLICANT: Wang, Xin  
APPLICANT: Tanzi, Rudolph E.  
APPLICANT: Bertram, Lars  
APPLICANT: Saunders, Aleister J.  
APPLICANT: Mullin, Kristina M.  
APPLICANT: Sampson, Andrew Johnson  
APPLICANT: Blacker, Deborah Lynne  
TITLE OF INVENTION: GENES AND POLYMORPHISMS ON CHROMOSOME 10  
TITLE OF INVENTION: ASSOCIATED WITH ALZHEIMER'S DISEASE AND OTHER  
FILE REFERENCE: 37481-3308  
CURRENT APPLICATION NUMBER: US/10/282,174  
CURRENT FILING DATE: 2002-10-25  
PRIORITY APPLICATION NUMBER: US 60/339,525  
PRIORITY FILING DATE: 2001-10-25  
PRIORITY APPLICATION NUMBER: US 60/338,010  
PRIORITY FILING DATE: 2001-11-08  
PRIORITY APPLICATION NUMBER: US 60/336,929  
PRIORITY FILING DATE: 2001-11-08  
PRIORITY APPLICATION NUMBER: US 60/338,363  
PRIORITY FILING DATE: 2001-11-09  
PRIORITY APPLICATION NUMBER: US 60/337,052  
PRIORITY FILING DATE: 2001-12-04  
PRIORITY APPLICATION NUMBER: US 60/368,919  
PRIORITY FILING DATE: 2002-03-28  
NUMBER OF SEQ ID NOS: 564  
SOFTWARE: PatSeq for Windows Version 4.0  
SEQ ID NO 469

```

: ORGANISM: Homo sapiens
:
: FEATURE:
:
: NAME/KEY: allele
:
: LOCATION: 30,57,85,243,250,377,512,531,555,561,6722
:
: OTHER INFORMATION: N is any
:
: OS-10-282-174-469

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Query Match 49.6%; Score 273; DB 13; Length 720;



;; PRIOR FILING DATE: 2001-10-25  
;; PRIOR APPLICATION NUMBER: US 60/338,010  
;; PRIOR FILING DATE: 2001-11-08  
;; PRIOR APPLICATION NUMBER: US 60/336,929  
;; PRIOR FILING DATE: 2001-11-08  
;; PRIOR APPLICATION NUMBER: US 60/338,363  
;; PRIOR FILING DATE: 2001-11-09  
;; PRIOR APPLICATION NUMBER: US 60/337,052  
;; PRIOR FILING DATE: 2001-12-04  
;; PRIOR APPLICATION NUMBER: US 60/368,919  
;; PRIOR FILING DATE: 2002-03-28  
;; NUMBER OF SEQ ID NOS: 564  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 72  
;; LENGTH: 5666  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-10-282-174-72

Query Match 22.0%; Score 121; DB 13; Length 5666;  
Best Local Similarity 100.0%; Pred. No. 1.7e-52;  
Matches 121; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 373 AGGCCAGAGTGGGGAGACTAGAGGGCTACAGGCCAGCGTGATGACCTGAAGCGCT 432  
DB 4874 AGGCCAGAGTGGGGAGACTAGAGGGCTACAGGCCAGCGTGATGACCTGAAGCGCT 4933  
QY 433 CCTGTGCTTGGACACCATCCCTCTTAGACAAGAGTGGCCGCTTAGTGACATGCG 492  
DB 4934 CCTGTGCTTGGACACCATCCCTCTTAGACAAGAGTGGCCGCTTAGTGACATGCG 4993  
QY 493 G 493  
DB 4994 G 4994

RESULT 11  
US-10-282-174-73  
;; Sequence 73, Application US/10282174  
;; Publication No. US20030224380A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Becker, Kenneth David  
;; APPLICANT: Velicelebi, Gonul  
;; APPLICANT: Eliot, Kathryn J.  
;; APPLICANT: Wang, Xin  
;; APPLICANT: Tanzi, Rudolph E.  
;; APPLICANT: Bertram, Lars  
;; APPLICANT: Saunders, Aleister J.  
;; APPLICANT: Mullin, Kristina M.  
;; APPLICANT: Sampson, Andrew Johnson  
;; APPLICANT: Blacker, Deborah Lynne  
;; TITLE OF INVENTION: GENES AND POLYMORPHISMS ON CHROMOSOME 10  
;; TITLE OF INVENTION: ASSOCIATED WITH ALZHEIMER'S DISEASE AND OTHER  
;; TITLE OF INVENTION: NEURODEGENERATIVE DISEASES  
;; FILE REFERENCE: 37481-3308  
;; CURRENT APPLICATION NUMBER: US/10/282,174  
;; CURRENT FILING DATE: 2002-10-25  
;; PRIOR APPLICATION NUMBER: US 60/339,525  
;; PRIOR FILING DATE: 2001-10-25  
;; PRIOR APPLICATION NUMBER: US 60/338,010  
;; PRIOR FILING DATE: 2001-11-08  
;; PRIOR APPLICATION NUMBER: US 60/336,929  
;; PRIOR FILING DATE: 2001-11-08  
;; PRIOR APPLICATION NUMBER: US 60/338,363  
;; PRIOR FILING DATE: 2001-11-09  
;; PRIOR APPLICATION NUMBER: US 60/337,052  
;; PRIOR FILING DATE: 2001-12-04  
;; PRIOR APPLICATION NUMBER: US 60/368,919  
;; PRIOR FILING DATE: 2002-03-28  
;; NUMBER OF SEQ ID NOS: 564  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 73  
;; LENGTH: 5666

;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
;; FEATURE:  
;; NAME/KEY: allele  
;; LOCATION: 560,590,617,645,915,987,1723,1943,1950,3151,3178,3189,3284,  
;; LOCATION: 4376,4311,4552,4995,5019,5025,5112,5136,5421,5648,5517  
;; OTHER INFORMATION: N is any  
;; FEATURE:  
;; NAME/KEY: allele  
;; LOCATION: 3779  
;; OTHER INFORMATION: deletion: T  
;; FEATURE:  
;; NAME/KEY: allele  
;; LOCATION: 4156  
;; OTHER INFORMATION: insertion following nucleotide 4155  
;; FEATURE:  
;; NAME/KEY: allele  
;; LOCATION: 4976  
;; OTHER INFORMATION: deletion: C  
US-10-282-174-73

Query Match 22.0%; Score 121; DB 13; Length 5666;  
Best Local Similarity 100.0%; Pred. No. 1.7e-52;  
Matches 121; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 373 AGGCCAGAGTGGGGAGACTAGAGGGCTACAGGCCAGCGTGATGACCTGAAGCGCT 432  
DB 4874 AGGCCAGAGTGGGGAGACTAGAGGGCTACAGGCCAGCGTGATGACCTGAAGCGCT 4933  
QY 433 CCTGTGCTTGGACACCATCCCTCTTAGACAAGAGTGGCCGCTTAGTGACATGCG 492  
DB 4934 CCTGTGCTTGGACACCATCCCTCTTAGACAAGAGTGGCCGCTTAGTGACATGCG 4993  
QY 493 G 493  
DB 4994 G 4994

RESULT 12  
US-10-267-849-1  
;; Sequence 1, Application US/10267849  
;; Publication No. US20030087824A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Ji, Hongjun  
;; APPLICANT: Rosen, Craig A.  
;; TITLE OF INVENTION: Breast Cancer Specific Gene 2  
;; FILE REFERENCE: 1488.0810001  
;; CURRENT APPLICATION NUMBER: US/10/267,849  
;; CURRENT FILING DATE: 2002-10-10  
;; PRIOR APPLICATION NUMBER: US/08/673,284  
;; PRIOR FILING DATE: 1996-06-28  
;; PRIOR APPLICATION NUMBER: US 60/000,602  
;; PRIOR FILING DATE: 1995-06-30  
;; NUMBER OF SEQ ID NOS: 45  
;; SOFTWARE: PatentIn version 3.1  
;; SEQ ID NO 1  
;; LENGTH: 786  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-10-267-849-1

Query Match 20.0%; Score 110; DB 15; Length 786;  
Best Local Similarity 100.0%; Pred. No. 1.1e-46;  
Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 AGGCCGTGTGGTGGCTGGTGAAGAAAGCAAGACAGGGGGTGACCGAGACAGCTGAGAGA 108  
DB 132 AGGCCGTGTGGTGGCTGGTGAAGAAAGCAAGACAGGGGGTGACCGAGACAGCTGAGAGA 191  
QY 109 CCAAGAGAGGGGGTATGTATGTGGAGCCAAAGCAAGAGGAATGTTGTA 158  
DB 192 CCAAGAGAGGGGGTATGTATGTGGAGCCAAAGCAAGAGGAATGTTGTA 241

```
RESULT 13
US-10-240-425-388
; Sequence 388, Application US/10240425
; Publication No. US2004003502A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Amanda
; APPLICANT: Boland, Joseph F.
; APPLICANT: Lord, Reginald V.
; APPLICANT: Alvarez, Chris
; APPLICANT: Wetzel, Jon C.
; APPLICANT: Scherf, Uwe
; APPLICANT: Vockley, Joseph G.
; TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue
; FILE REFERENCE: 44921-5026
; CURRENT APPLICATION NUMBER: US/10/240.425
; PRIOR FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: PCT/US01/09847
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/193,446
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 1588
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 388
; LENGTH: 4606
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US2004003502A1 AF044311
US-10-240-425-388

Query Match
Best Local Similarity 18.5%; Score 102; DB 13; Length 4606;
Matches 102; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 373 AGCCCAAGTGGGGAGACTAGAGGCTTACAGAGGCGGAGGAGTGGTGAAGAGCGCT 432
Db 4312 AGCCCAAGTGGGGAGACTAGAGGCTTACAGAGGCGGAGGAGTGGTGAAGAGCGCT 4371

Qy 433 CCTGTGCTTGAGACCATCCCTCTTACAGCAAGAGTGGC 474
Db 4372 CCTGTGCTTGAGACCATCCCTCTTACAGCAAGAGTGGC 4413

RESULT 14
US-10-282-174-483
; Sequence 483, Application US/10282174
; Publication No. US20030224380A1
; GENERAL INFORMATION:
; APPLICANT: Becker, Kenneth David
; APPLICANT: Velicelebi, Gonul
; APPLICANT: Elliot, Kathryn J.
; APPLICANT: Wang, Xin
; APPLICANT: Tanzi, Rudolph E.
; APPLICANT: Bertiam, Lare
; APPLICANT: Saunders, Aleister J.
; APPLICANT: Mullin, Kristina M.
; APPLICANT: Sampson, Andrew Johnson
; APPLICANT: Blacker, Deborah Lynne
; TITLE OF INVENTION: GENES AND POLYMORPHISMS ON CHROMOSOME 10
; TITLE OF INVENTION: ASSOCIATED WITH ALZHEIMER'S DISEASE AND OTHER
; FILE REFERENCE: 37481-3308
; CURRENT APPLICATION NUMBER: US/10/282.174
; PRIOR FILING DATE: 2002-10-25
; PRIOR APPLICATION NUMBER: US 60/339,525
; PRIOR FILING DATE: 2001-10-25
; PRIOR APPLICATION NUMBER: US 60/338,010
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: US 60/336,929
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: US 60/338,363
; PRIOR FILING DATE: 2001-11-09
```

```
; PRIOR APPLICATION NUMBER: US 60/337,052
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: US 60/368,919
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 483
; LENGTH: 6012
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-282-174-483
```

```
Query Match
Best Local Similarity 18.5%; Score 102; DB 13; Length 6012;
Matches 102; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 373 AGCCCAAGTGGGGAGACTAGAGGCTTACAGAGGCGGAGGAGTGGTGAAGAGCGCT 432
Db 5221 AGCCCAAGTGGGGAGACTAGAGGCTTACAGAGGCGGAGGAGTGGTGAAGAGCGCT 5280

Qy 433 CCTGTGCTTGAGACCATCCCTCTTACAGCAAGAGTGGC 474
Db 5281 CCTGTGCTTGAGACCATCCCTCTTACAGCAAGAGTGGC 5322
```

```
RESULT 15
US-10-029-386-23457/c
; Sequence 23457, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GE
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AROMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029.386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 23457
; LENGTH: 137
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO CHR10.3
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 4.9
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 6.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3.4
; OTHER INFORMATION: SWISSPROT HIT: 076070, EVALUE 6.00e-06
; OTHER INFORMATION: EST HUMAN HIT: B1457851.1, EVALUE 6.00e-69
; OTHER INFORMATION: NT HIT: AF044311.1, EVALUE 4.00e-69
US-10-029-386-23457
```

```
Query Match
Best Local Similarity 16.4%; Score 90; DB 15; Length 137;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 214 AGCTGTGTGAGACGCTCAACTGTGGCCACCAACCGTGGAGAGGGGAGCA 273
Db 96 AGCTGTGTGAGACGCTCAACTGTGGCCACCAACCGTGGAGAGGGGAGCA 37

Qy 274 TCGCGGTACCTCCGGGGTGGTGGCGAAG 303
Db 36 TCGCGGTACCTCCGGGGTGGTGGCGAAG 7
```

Search completed: May 24, 2004, 14:21:28  
Job time : 294 secs

This Page Blank (uspto)

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 20, 2004, 14:41:29 ; Search time 23 Seconds  
(without alignments)  
285.065 Million cell updates/sec

Title: US-09-017-715A-2

Perfect score: 610  
Sequence: 1 MDVFKKGFSAIKGVVGAVER.....EGEASKEKEVAEQAQSGD 127

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/prodata/2/1aa/5A\_COMB.pep:\*
- 2: /cgn2\_6/prodata/2/1aa/5B\_COMB.pep:\*
- 3: /cgn2\_6/prodata/2/1aa/6A\_COMB.pep:\*
- 4: /cgn2\_6/prodata/2/1aa/6B\_COMB.pep:\*
- 5: /cgn2\_6/prodata/2/1aa/6CTUS\_COMB.pep:\*
- 6: /cgn2\_6/prodata/2/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description                           |
|------------|-------|-------------|--------|-------|---------------------------------------|
| 1          | 610   | 100.0       | 127    | 3     | US-08-705-771-12 Sequence 12, Appl    |
| 2          | 610   | 100.0       | 127    | 4     | US-09-417-540-12 Sequence 12, Appl    |
| 3          | 316.5 | 51.9        | 140    | 3     | US-09-405-035-4 Sequence 4, Appl      |
| 4          | 311.5 | 51.1        | 140    | 3     | US-09-405-035-3 Sequence 3, Appl      |
| 5          | 308.5 | 50.6        | 140    | 3     | US-09-405-035-2 Sequence 2, Appl      |
| 6          | 307.5 | 50.4        | 140    | 3     | US-09-405-035-1 Sequence 1, Appl      |
| 7          | 307.5 | 50.4        | 140    | 5     | PCT-US94-09789-2 Sequence 2, Appl     |
| 8          | 177   | 29.0        | 54     | 4     | US-09-621-976-4469 Sequence 4469, Ap  |
| 9          | 95    | 15.6        | 242    | 4     | US-09-543-681A-5933 Sequence 5933, Ap |
| 10         | 94    | 15.4        | 540    | 3     | US-08-973-462-22 Sequence 22, Appl    |
| 11         | 94    | 15.4        | 564    | 2     | US-08-216-894-2 Sequence 2, Appl      |
| 12         | 94    | 15.4        | 643    | 2     | US-09-115-746-2 Sequence 2, Appl      |
| 13         | 94    | 15.4        | 643    | 2     | US-08-216-894-8 Sequence 8, Appl      |
| 14         | 94    | 15.4        | 643    | 3     | US-09-115-746-8 Sequence 8, Appl      |
| 15         | 94    | 15.4        | 1786   | 3     | US-08-973-462-8 Sequence 8, Appl      |
| 16         | 92.5  | 15.2        | 928    | 4     | US-09-134-000C-6590 Sequence 6590, Ap |
| 17         | 92    | 15.1        | 1346   | 4     | US-08-635-121-2 Sequence 2, Appl      |
| 18         | 92    | 15.1        | 1346   | 4     | US-08-978-277A-2 Sequence 2, Appl     |
| 19         | 92    | 15.1        | 1596   | 4     | US-08-978-277A-4 Sequence 25, Appl    |
| 20         | 90    | 14.8        | 212    | 3     | US-08-973-462-25 Sequence 25, Appl    |
| 21         | 90    | 14.8        | 630    | 3     | US-08-973-462-9 Sequence 9, Appl      |
| 22         | 89.5  | 14.7        | 162    | 3     | US-09-068-140A-2 Sequence 2, Appl     |
| 23         | 89.5  | 14.7        | 173    | 3     | US-09-068-140A-13 Sequence 13, Appl   |
| 24         | 88.5  | 14.5        | 1430   | 3     | US-09-008-172-2 Sequence 2, Appl      |
| 25         | 88.5  | 14.5        | 1430   | 3     | US-09-210-361-6 Sequence 6, Appl      |
| 26         | 88.5  | 14.5        | 1430   | 4     | US-09-740-274-6 Sequence 6, Appl      |
| 27         | 88    | 14.4        | 718    | 4     | US-09-540-236-2753 Sequence 2753, Ap  |

|    |      |      |      |   |                                       |
|----|------|------|------|---|---------------------------------------|
| 28 | 86.5 | 14.2 | 223  | 4 | US-09-134-000C-5983 Sequence 5983, Ap |
| 29 | 86.5 | 14.2 | 427  | 4 | US-09-134-001C-5143 Sequence 5143, Ap |
| 30 | 86.5 | 14.2 | 1541 | 3 | US-08-296-791-3 Sequence 3, Appl      |
| 31 | 86.5 | 14.2 | 1541 | 4 | US-09-839-996-3 Sequence 3, Appl      |
| 32 | 86.5 | 14.2 | 1541 | 4 | US-10-080-505-3 Sequence 3, Appl      |
| 33 | 86.5 | 14.2 | 1541 | 5 | PCT-US95-10661A-3 Sequence 3, Appl    |
| 34 | 86.5 | 14.2 | 1545 | 3 | US-08-296-791-4 Sequence 4, Appl      |
| 35 | 86.5 | 14.2 | 1545 | 4 | US-09-839-996-4 Sequence 4, Appl      |
| 36 | 86.5 | 14.2 | 1545 | 4 | US-10-080-505-4 Sequence 4, Appl      |
| 37 | 86.5 | 14.2 | 1545 | 5 | PCT-US95-10661A-4 Sequence 4, Appl    |
| 38 | 86   | 14.1 | 464  | 4 | US-09-561-818A-28 Sequence 5754, Ap   |
| 39 | 85   | 13.9 | 1572 | 4 | US-09-562-702A-32 Sequence 32, Appl   |
| 40 | 85   | 13.9 | 1572 | 4 | US-09-562-702A-30 Sequence 28, Appl   |
| 41 | 85   | 13.9 | 1605 | 4 | US-09-562-702A-30 Sequence 30, Appl   |
| 42 | 85   | 13.9 | 1605 | 4 | US-09-561-818A-26 Sequence 26, Appl   |
| 43 | 84.5 | 13.9 | 373  | 4 | US-09-134-000C-4057 Sequence 4057, Ap |
| 44 | 84.5 | 13.9 | 795  | 4 | US-09-107-532A-5429 Sequence 5429, Ap |
| 45 | 84   | 13.8 | 801  | 4 | US-09-388-743-26 Sequence 26, Appl    |

#### ALIGNMENTS

RESULT 1  
US-08-705-771-12  
Sequence 12, Application US/08705771  
Patent No. 6054289  
GENERAL INFORMATION:  
APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,  
APPLICANT: Jian Ni and Jing-Shan Hu  
TITLE OF INVENTION: Human Genes, Sequences and  
TITLE OF INVENTION: Expression Products  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESSES:  
ADDRESSES: CARELLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSES: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/705,771  
FILING DATE: August 30, 1996  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-346 (PFI96)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 973-994-1700  
TELEFAX: 973-994-1744  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 127 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-705-771-12

Query Match 100.0%; Score 610; DB 3; Length 127;  
Best Local Similarity 100.0%; Pred. No. 1e-56;  
Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MDVFKKGFSAIKGVVGAVERTEAEKTKGKGVVGAQKTKENVVQSVTSVAEKT 60  
DB 1 MDVFKKGFSAIKGVVGAVERTKGVVGAQKTKENVVQSVTSVAEKT 60

QY 61 EQANAVSKAVSSVNTVATKTEBEAENIAVTSGVVRKEDLRPSAPOEGEASKEKEVAE 120  
 DB 61 EQANAVSKAVSSVNTVATKTEBEAENIAVTSGVVRKEDLRPSAPOEGEASKEKEVAE 120  
 QY 121 EAQSGGD 127  
 DB 121 EAQSGGD 127

## RESULT 2

US-09-417-540-12  
 ; Sequence 12, Application US/09417540  
 ; Patent No. 6639052

## GENERAL INFORMATION:

APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,  
 Jian Ni and Jing-Shan Hu  
 TITLE OF INVENTION: Human Genes, Sequences and  
 Expression Products  
 NUMBER OF SEQUENCES: 22  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: CARBELL, BYRNE, BAIN, GILFILLAN,  
 CECCHI, STEWART & OLSTEIN  
 STREET: 6 BECKER FARM ROAD  
 CITY: ROSELAND  
 STATE: NEW JERSEY  
 COUNTRY: USA  
 ZIP: 07068

## COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 INCH DISKETTE  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: MS-DOS  
 SOFTWARE: WORD PERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/417,540  
 FILING DATE: 14-Oct-1999  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/705,771  
 FILING DATE: August 30, 1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: MULLINS, J.G.  
 REGISTRATION NUMBER: 33,073  
 REFERENCE/DOCKET NUMBER: 325800-346 (PF196)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 973-994-1700  
 TELEFAX: 973-994-1744

## INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 127 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
 US-09-417-540-12

Query Match 100.0%; Score 610; DB 4; Length 127;  
 Best Local Similarity 100.0%; Pred. No. 1e-56;  
 Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDVFKKGSIAKGGVGAVEKTKQGVTBAEAKTKEGVMVVGAKTKENVVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKGGVGAVEKTKQGVTBAEAKTKEGVMVVGAKTKENVVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVSSVNTVATKTEBEAENIAVTSGVVRKEDLRPSAPOEGEASKEKEVAE 120  
 DB 61 EQANAVSKAVSSVNTVATKTEBEAENIAVTSGVVRKEDLRPSAPOEGEASKEKEVAE 120  
 QY 121 EAQSGGD 127  
 DB 121 EAQSGGD 127

## RESULT 3

US-09-405-035-4  
 ; Sequence 4, Application US/09405035  
 ; Patent No. 6184351  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Biere, Anja Leona  
 ; TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 ; FILE REFERENCE: A-565  
 ; CURRENT APPLICATION NUMBER: US/09/405,035  
 ; CURRENT FILING DATE: 1999-09-24  
 ; EARLIER APPLICATION NUMBER: 60/101,862  
 ; EARLIER FILING DATE: 1998-09-25  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 4  
 ; LENGTH: 140  
 ; TYPE: PRT  
 ; ORGANISM: ADULT HUMAN BRAIN  
 US-09-405-035-4

Query Match 51.9%; Score 316.5; DB 3; Length 140;  
 Best Local Similarity 63.6%; Pred. No. 7.8e-26;  
 Matches 70; Conservative 10; Mismatches 27; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKGGVGAVEKTKQGVTBAEAKTKEGVMVVGAKTKENVVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKGGVGAVEKTKQGVTBAEAKTKEGVMVVGAKTKENVVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVSSVNTVATKTEBEAENIAVTSGVVRKEDLRPSAPOEGEASKEKEVAE 120  
 DB 61 EQANAVSKAVSSVNTVATKTEBEAENIAVTSGVVRKEDLRPSAPOEGEASKEKEVAE 120

## RESULT 4

US-09-405-035-3  
 ; Sequence 3, Application US/09405035  
 ; Patent No. 6184351  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Biere, Anja Leona  
 ; TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 ; FILE REFERENCE: A-565  
 ; CURRENT APPLICATION NUMBER: US/09/405,035  
 ; CURRENT FILING DATE: 1999-09-24  
 ; EARLIER APPLICATION NUMBER: 60/101,862  
 ; EARLIER FILING DATE: 1998-09-25  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 3  
 ; LENGTH: 140  
 ; TYPE: PRT  
 ; ORGANISM: ADULT HUMAN BRAIN  
 US-09-405-035-3

Query Match 51.1%; Score 311.5; DB 3; Length 140;  
 Best Local Similarity 62.7%; Pred. No. 2.6e-25;  
 Matches 69; Conservative 10; Mismatches 28; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKGGVGAVEKTKQGVTBAEAKTKEGVMVVGAKTKENVVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKGGVGAVEKTKQGVTBAEAKTKEGVMVVGAKTKENVVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVSSVNTVATKTEBEAENIAVTSGVVRKEDLRPSAPOEGEASKEKEVAE 120  
 DB 61 EQANAVSKAVSSVNTVATKTEBEAENIAVTSGVVRKEDLRPSAPOEGEASKEKEVAE 120

## RESULT 5

US-09-405-035-2  
 ; Sequence 2, Application US/09405035  
 ; Patent No. 6184351



GENERAL INFORMATION:  
 APPLICANT: Biere, Anja Leona  
 TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 FILE REFERENCE: A-565  
 CURRENT APPLICATION NUMBER: US/09/405,035  
 CURRENT FILING DATE: 1999-09-24  
 EARLIER APPLICATION NUMBER: 60/101,862  
 EARLIER FILING DATE: 1998-09-25  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 2  
 LENGTH: 140  
 TYPE: PRT  
 ORGANISM: ADULT HUMAN BRAIN  
 US-09-405-035-2

Query Match 50.6%; Score 308.5; DB 3; Length 140;  
 Best Local Similarity 61.8%; Pred. No. 5.4e-25;  
 Matches 68; Conservative 11; Mismatches 28; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKGVAVGAVTEKQGVTEAAEKTKEGVMYVGAKTENYVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKGVAVGAVTEKQGVTEAAEKTKEGVMYVGAKTENYVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVVSVTVATKTYEEAENIAVTSIGVVRKEDL--RPSAPQ 107  
 DB 61 EQVTVGAVVTVGTVAVAKTVGAGSIAVAVGFKVQKQDGNBEGAPQE 110

RESULT 6  
 US-09-405-035-1  
 Sequence 1, Application US/09405035  
 Patent No. 6184351  
 GENERAL INFORMATION:  
 APPLICANT: Biere, Anja Leona  
 TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 FILE REFERENCE: A-565  
 CURRENT APPLICATION NUMBER: US/09/405,035  
 CURRENT FILING DATE: 1999-09-24  
 EARLIER APPLICATION NUMBER: 60/101,862  
 EARLIER FILING DATE: 1998-09-25  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1  
 LENGTH: 140  
 TYPE: PRT  
 ORGANISM: ADULT HUMAN BRAIN  
 US-09-405-035-1

Query Match 50.4%; Score 307.5; DB 3; Length 140;  
 Best Local Similarity 61.8%; Pred. No. 6.9e-25;  
 Matches 68; Conservative 10; Mismatches 29; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKGVAVGAVTEKQGVTEAAEKTKEGVMYVGAKTENYVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKGVAVGAVTEKQGVTEAAEKTKEGVMYVGAKTENYVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVVSVTVATKTYEEAENIAVTSIGVVRKEDL--RPSAPQ 107  
 DB 61 EQVTVGAVVTVGTVAVAKTVGAGSIAVAVGFKVQKQDGNBEGAPQE 110

RESULT 7  
 PCT-US94-09789-2  
 Sequence 2, Application PC/TUS9409789  
 GENERAL INFORMATION:  
 APPLICANT: The Regents of the University of California  
 TITLE OF INVENTION: NOVEL COMPONENT OF AMYLOID IN  
 TITLE OF INVENTION: ALZHEIMER'S DISEASE AND METHODS FOR USE OF SAME

NUMBER OF SEQUENCES: 12  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Spensley Horn Jubas & Lubitz  
 STREET: 1880 Century Park East - Suite 500  
 CITY: Los Angeles  
 STATE: California  
 COUNTRY: USA  
 ZIP: 90067  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US94/09789  
 FILING DATE: 29-AUG-1994  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Howells, Stacy L.  
 REGISTRATION NUMBER: 34,842  
 REFERENCE/DOCKET NUMBER: PD-3520  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 455-5100  
 TELEFAX: (619) 455-5110  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 140 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 IMMEDIATE SOURCE:  
 CLONE: MACP  
 FEATURE:  
 NAME/KEY: Protein  
 LOCATION: 1..140  
 PCT-US94-09789-2

Query Match 50.4%; Score 307.5; DB 5; Length 140;  
 Best Local Similarity 61.8%; Pred. No. 6.9e-25;  
 Matches 68; Conservative 10; Mismatches 29; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKGVAVGAVTEKQGVTEAAEKTKEGVMYVGAKTENYVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKGVAVGAVTEKQGVTEAAEKTKEGVMYVGAKTENYVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVVSVTVATKTYEEAENIAVTSIGVVRKEDL--RPSAPQ 107  
 DB 61 EQVTVGAVVTVGTVAVAKTVGAGSIAVAVGFKVQKQDGNBEGAPQE 110

RESULT 8  
 US-09-621-976-4469  
 Sequence 4469, Application US/09621976  
 Patent No. 6639063  
 GENERAL INFORMATION:  
 APPLICANT: Dumas Milne Edwards, J.B.  
 APPLICANT: Jobert, S.  
 APPLICANT: Giordano, J.Y.  
 TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
 FILE REFERENCE: GENSET.054PR2  
 CURRENT APPLICATION NUMBER: US/09/621,976  
 CURRENT FILING DATE: 2000-07-21  
 NUMBER OF SEQ ID NOS: 19335  
 SOFTWARE: Patent.pm  
 SEQ ID NO 4469  
 LENGTH: 54  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-621-976-4469

Query Match 29.0%; Score 177; DB 4; Length 54;  
 Best Local Similarity 81.4%; Pred. No. 9.6e-12;

APPLICANT: Kirchhoff, Louis V.  
APPLICANT: Otsu, Keiko

TITLE OF INVENTION: POLYPEPTIDES FOR DIAGNOSING INFECTION  
TITLE OF INVENTION: WITH TRYPAOSOMA CRUZI  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington, D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/115,746  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/216,894  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 85326/102/DRLO  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 564 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-115-746-2

Query Match 15.4%; Score 94; DB 3; Length 564;  
Best Local Similarity 31.2%; Pred. No. 0.13;  
Matches 34; Conservative 12; Mismatches 57; Indels 6; Gaps 2;

QY 18 AVEKTKQGVTEA-----AEKTEGVWYVGAKTENNVOSVTSVAEKTEQANAVSKAVYS 72  
DB 339 AVEETKQRAAEATKVAEAEKRAAEAAKAVETEKQRAAEATKVAEAEKQAAEAAKAVET 398

QY 73 SVNTVATKT-VEEAENIAVTSVVRKEDLRPSAPQOEGEASKEKEVAE 120  
DB 399 EKQRAAEATKVAEAEKQRAAEAMKVAAEAEKQAAEATKVAEAEKQAAE 447

RESULT 13  
US-08-216-894-8  
Sequence 8, Application US/08216894  
Patent No. 5876734  
GENERAL INFORMATION:  
APPLICANT: Kirchhoff, Louis V.  
APPLICANT: Otsu, Keiko  
TITLE OF INVENTION: POLYPEPTIDES FOR DIAGNOSING INFECTION  
TITLE OF INVENTION: WITH TRYPAOSOMA CRUZI  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington, D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/216,894  
FILING DATE: 24-MAR-1994

ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 85326/102/DRLO  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 643 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-216-894-8

Query Match 15.4%; Score 94; DB 2; Length 643;  
Best Local Similarity 31.2%; Pred. No. 0.15;  
Matches 34; Conservative 12; Mismatches 57; Indels 6; Gaps 2;

QY 18 AVEKTKQGVTEA-----AEKTEGVWYVGAKTENNVOSVTSVAEKTEQANAVSKAVYS 72  
DB 339 AVEETKQRAAEATKVAEAEKRAAEAAKAVETEKQRAAEATKVAEAEKQAAEAAKAVET 398

QY 73 SVNTVATKT-VEEAENIAVTSVVRKEDLRPSAPQOEGEASKEKEVAE 120  
DB 399 EKQRAAEATKVAEAEKQRAAEAMKVAAEAEKQAAEATKVAEAEKQAAE 447

RESULT 14  
US-09-115-746-8  
Sequence 8, Application US/09115746  
Patent No. 6228601  
GENERAL INFORMATION:  
APPLICANT: Kirchhoff, Louis V.  
APPLICANT: Otsu, Keiko  
TITLE OF INVENTION: POLYPEPTIDES FOR DIAGNOSING INFECTION  
TITLE OF INVENTION: WITH TRYPAOSOMA CRUZI  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington, D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/115,746  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/216,894  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 85326/102/DRLO  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 643 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-115-746-8

Query Match 15.4%; Score 94; DB 3; Length 643;

Best Local Similarity 31.2%; Pred. NO. 0.15;  
Matches 34; Conservative 12; Mismatches 57; Indels 6; Gaps 2;

Dy 18 AVEKTKQGLTEA-----AEKTKEGWNYVGATKENVQSVSVAEKTKEQAANAASKAVS 72

Dd 339 AVETEKQRAAEATKVAAEAERKAALAAKAVE TEKQRAAEATKVAAEAERKQAAEAAKAVET 398

Db 339 AVETEKQRAAEATKVAAEAEKRAEAAKAVETEKQRAAEATKVAAEAEKQKAAEAAKAVET 398

QY 73 SVNTVATKT-VEEAEANIAVTSGVRKEDLRPSAPQQEGEASKEKEEVAE 120

Db 399 EKQRAEATKVAEAEKQRAEAMKVAEAEKQKAAEATKVAEAEKQAAE 447

**RESULT 15**

US-08-973-462-8  
; Sequence 8, Application US/08973462B  
; Patent No. 6101370

Sequence 8, Application US/08973462B  
Patent No. 6101370

; Patent No. 6191270

GENERAL INFORMATION:

APPLICANT: DRUILHE, PIERRE

APPLICANT: DAUBERSIES, PIERRE

1. TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES

FILE REFERENCE: 0660-0125-0 PCT

! CURRENT APPLICATION NUMBER: US/08/973,462B

CURRENT FILING DATE: 1998-02-06

EARLIER APPLICATION NUMBER: PCT/FR96/00894

EARLIER FILING DATE: 1996-06-12

EARLIER APPLICATION NUMBER: FR 95/07007

EARLIER FILING DATE: 1995-06-13

NUMBER OF SEQ ID NOS: 29

SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 8

LENGTH: 1786

TYPE: PRT

ORGANISM: Artificial Sequence

ORGANISM: *Allicia* sequence

OTHER INFORMATION: Description of Artificial Sequence: Polymantide

OTHER INFO  
HS-08-973-462-8

| Query Match | Score 94; | DB 3; | Length 1786; |
|-------------|-----------|-------|--------------|
| 15.4%       |           |       |              |

Best Local Similarity 29.9%; Pred. No. 0.61;

Matches 40; Conservative 17; Mismatches 55; Indels 22; Gaps 7;

9 SIKKGVGAVEKQGVTEA-AEKTKEGVM-YVGAKTKENNVQSVT-----SVAEKTKE 61

1.                       
    ..  
    ..  
 2.                       
    ..  
    ..  
 3.                       
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 4.                       
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 5.                       
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 6.                       
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 7.                       
    ..  
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Search completed: May 20, 2004, 14:42:39  
Job time : 24 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 20, 2004, 14:41:29 ; Search time 44 Seconds  
(without alignments)  
805.069 Million cell updates/sec

Title: US-09-017-715A-2  
Perfect score: 610  
Sequence: 1 MDVFKGSIKAGVAVGAVE.....EGEASKEKEVAEASQSGD 127

Scoring table:  
Gapop 10.0 , Gapext 0.5

Searched: 1149313 seqs, 278921704 residues  
Total number of hits satisfying chosen parameters: 1149313

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA.\*  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PTCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/PTCT\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09C\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | DB ID             | Description       |
|------------|-------|-------------|--------|-------------------|-------------------|
| 1          | 610   | 100.0       | 127    | US-10-453-478-12  | Sequence 12, Appl |
| 2          | 602   | 98.7        | 163    | US-09-928-298-589 | Sequence 589, App |
| 3          | 602   | 98.7        | 163    | US-10-102-806-589 | Sequence 589, App |
| 4          | 595   | 97.5        | 127    | US-10-097-340-298 | Sequence 298, App |
| 5          | 316.5 | 51.9        | 140    | US-10-039-413-4   | Sequence 4, Appl  |
| 6          | 311.5 | 51.1        | 140    | US-10-039-413-3   | Sequence 3, Appl  |
| 7          | 308.5 | 50.6        | 140    | US-10-039-413-2   | Sequence 2, Appl  |
| 8          | 307.5 | 50.4        | 138    | US-10-077-584-2   | Sequence 2, Appl  |
| 9          | 307.5 | 50.4        | 140    | US-09-904-987-4   | Sequence 4, Appl  |
| 10         | 307.5 | 50.4        | 140    | US-10-039-413-1   | Sequence 1, Appl  |
| 11         | 307.5 | 50.4        | 140    | US-10-301-488A-54 | Sequence 54, Appl |
| 12         | 307.5 | 50.4        | 140    | US-10-445-366-17  | Sequence 17, Appl |
| 13         | 307.5 | 50.4        | 140    | US-10-223-978-7   | Sequence 7, Appl  |
| 14         | 304.5 | 49.9        | 140    | US-10-112-944-255 | Sequence 255, App |
| 15         | 267.5 | 43.9        | 140    | US-10-301-488A-55 | Sequence 55, Appl |

|    |       |      |       |    |                      |                    |
|----|-------|------|-------|----|----------------------|--------------------|
| 15 | 140   | 23.0 | 32    | 14 | US-10-223-978-3      | Sequence 3, Appl   |
| 17 | 117.5 | 19.3 | 473   | 12 | US-10-424-599-224336 | Sequence 224336, A |
| 18 | 117   | 19.2 | 30    | 9  | US-09-864-761-47813  | Sequence 47813, A  |
| 19 | 114.5 | 18.8 | 346   | 12 | US-10-425-114-44178  | Sequence 44178, A  |
| 20 | 114.5 | 18.8 | 458   | 12 | US-10-424-599-224334 | Sequence 224334, A |
| 21 | 114.5 | 18.8 | 464   | 12 | US-10-425-114-45710  | Sequence 45710, A  |
| 22 | 111   | 18.2 | 448   | 14 | US-10-342-224-82     | Sequence 82, Appl  |
| 23 | 111   | 18.2 | 448   | 14 | US-10-171-404A-20    | Sequence 20, Appl  |
| 24 | 109   | 17.9 | 47    | 9  | US-09-864-761-45900  | Sequence 45900, A  |
| 25 | 103   | 16.9 | 202   | 12 | US-10-424-599-259159 | Sequence 259159, A |
| 26 | 98    | 16.1 | 129   | 10 | US-09-815-242-11228  | Sequence 11228, A  |
| 27 | 98    | 16.1 | 139   | 10 | US-09-820-843A-65    | Sequence 65, Appl  |
| 28 | 98    | 16.1 | 136   | 10 | US-09-820-843A-66    | Sequence 66, Appl  |
| 29 | 98    | 16.1 | 585   | 16 | US-10-389-566-1145   | Sequence 1145, Ap  |
| 30 | 97.5  | 16.0 | 178   | 12 | US-10-424-599-164167 | Sequence 164167, A |
| 31 | 95.5  | 15.7 | 1665  | 12 | US-10-282-122A-71690 | Sequence 71690, A  |
| 32 | 94    | 15.4 | 540   | 9  | US-09-742-096-22     | Sequence 22, Appl  |
| 33 | 94    | 15.4 | 1786  | 9  | US-09-742-096-3      | Sequence 3, Appl   |
| 34 | 94    | 15.4 | 1787  | 12 | US-10-415-253-2      | Sequence 2, Appl   |
| 35 | 93.5  | 15.3 | 1258  | 14 | US-10-156-761-10395  | Sequence 10395, A  |
| 36 | 93    | 15.2 | 498   | 12 | US-10-424-599-196154 | Sequence 196154, A |
| 37 | 92.5  | 15.2 | 181   | 12 | US-10-424-599-165513 | Sequence 165513, A |
| 38 | 92    | 15.1 | 407   | 12 | US-10-282-122A-71177 | Sequence 71177, A  |
| 39 | 92    | 15.1 | 1346  | 9  | US-09-902-432-2      | Sequence 2, Appl   |
| 40 | 92    | 15.1 | 1596  | 9  | US-09-902-432-4      | Sequence 4, Appl   |
| 41 | 92    | 15.1 | 2233  | 10 | US-09-769-787-2      | Sequence 2, Appl   |
| 42 | 92    | 15.1 | 26926 | 9  | US-09-759-508B-2     | Sequence 4, Appl   |
| 43 | 91    | 14.9 | 32    | 14 | US-10-223-978-4      | Sequence 6, Appl   |
| 44 | 90.5  | 14.8 | 308   | 14 | US-10-223-978-6      | Sequence 10302, A  |
| 45 | 90.5  | 14.8 | 508   | 14 | US-10-156-761-10302  |                    |

## ALIGNMENTS

RESULT 1  
US-10-453-478-12  
; Sequence 12, Application US/10453478  
; Publication No. US20030208043A1  
; GENERAL INFORMATION:  
APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,  
Jian Ni and Jing-Shan Hu  
TITLE OF INVENTION: Human Genes, Sequences and  
Expression Products  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CECCHI, STEWART & OLSTEIN,  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/453,478  
FILING DATE: 04-Jun-2003  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/705,771  
FILING DATE: August 30, 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-346 (PFI96)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 973-994-1700  
TELEFAX: 973-994-1744  
INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:  
LENGTH: 127 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
US-10-453-478-12

Query Match 100.0%; Score 610; DB 15; Length 127;  
Best Local Similarity 100.0%; Pred. No. 5,2e-49;  
Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDVFKKGSIAKGVGAVGAEKTKQGVTEAEAEKTKEGVMYVGAKTKENNVQSVTSVAEKT 60  
DB 1 MDVFKKGSIAKGVGAVGAEKTKQGVTEAEAEKTKEGVMYVGAKTKENNVQSVTSVAEKT 60  
QY 61 EQANAVSKAVSSVNTVATKTVTEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEEVAE 120  
DB 61 EQANAVSKAVSSVNTVATKTVTEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEEVAE 120  
QY 121 EAQSGGD 127  
DB 121 EAQSGGD 127

## RESULT 2

US-09-925-298-589  
Sequence 589, Application US/09925298  
Publication No. US20020039764A1  
GENERAL INFORMATION:

APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA103  
CURRENT APPLICATION NUMBER: US/09/925,298  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05881  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 846  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 589  
LENGTH: 163  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-925-298-589

Query Match 98.7%; Score 602; DB 12; Length 163;  
Best Local Similarity 98.4%; Pred. No. 4e-48;  
Matches 125; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDVFKKGSIAKGVGAVGAEKTKQGVTEAEAEKTKEGVMYVGAKTKENNVQSVTSVAEKT 60  
DB 37 MDVFKKGSIAKGVGAVGAEKTKQGVTEAEAEKTKEGVMYVGAKTKENNVQSVTSVAEKT 96  
QY 61 EQANAVSKAVSSVNTVATKTVTEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEEVAE 120  
DB 97 EQANAVSEAVSSVNTVATKTVTEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEEVAE 156  
QY 121 EAQSGGD 127  
DB 157 EAQSGGD 163

## RESULT 3

US-10-102-806-589  
Sequence 589, Application US/10102806  
Publication No. US20030054421A1  
GENERAL INFORMATION:

APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA103P1C1  
CURRENT APPLICATION NUMBER: US/10/102,806

CURRENT FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: 09/925,298  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05881  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 846  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 589  
LENGTH: 163  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-102-806-589

Query Match 98.7%; Score 602; DB 14; Length 163;  
Best Local Similarity 98.4%; Pred. No. 4e-48;  
Matches 125; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDVFKKGSIAKGVGAVGAEKTKQGVTEAEAEKTKEGVMYVGAKTKENNVQSVTSVAEKT 60  
DB 37 MDVFKKGSIAKGVGAVGAEKTKQGVTEAEAEKTKEGVMYVGAKTKENNVQSVTSVAEKT 96  
QY 61 EQANAVSKAVSSVNTVATKTVTEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEEVAE 120  
DB 97 EQANAVSEAVSSVNTVATKTVTEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEEVAE 156  
QY 121 EAQSGGD 127  
DB 157 EAQSGGD 163

## RESULT 4

US-10-097-340-298  
Sequence 298, Application US/10097340  
Publication No. US20030087250A1  
GENERAL INFORMATION:

APPLICANT: Manjula GANNANAVARAPU  
APPLICANT: Sebastian HORSCH  
APPLICANT: Shudhangt KAMATKAR  
APPLICANT: Steve G. KOVATS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Ami SEN  
APPLICANT: Peter VEIRY  
APPLICANT: Gordon B. MILLIS  
APPLICANT: Robert C. BAST, Jr.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHMANDT  
APPLICANT: Xunel ZHAO  
APPLICANT: Karen GIATT

TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification, Assessment, Prevention, and Therapy of Ovarian Cancer

FILE REFERENCE: MRI-030  
CURRENT APPLICATION NUMBER: US/10/097,340  
CURRENT FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: 60/276,025  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/325,149  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/276,026  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/324,967  
PRIOR FILING DATE: 2001/09/26  
PRIOR APPLICATION NUMBER: 60/311,732  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/325,102  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/323,580  
PRIOR FILING DATE: 2001-09-19  
NUMBER OF SEQ ID NOS: 363

SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 298  
 LENGTH: 127  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-097-340-298

Query Match 97.5%; Score 595; DB 14; Length 127;  
 Best Local Similarity 97.6%; Pred. No. 1.3e-47;  
 Matches 124; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDVFKKGSIAKKGAVGAVTEKTKGVTAEAEKTKGVMVYGAKTENNVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKKGAVGAVTEKTKGVTAEAEKTKGVMVYGAKTENNVQSVTSVAEKT 60  
 QY 61 EQANAVSAVSSVNTVATKTVEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEEVAE 120  
 DB 61 EQANAVSAVSSVNTVATKTVEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEEVAE 120  
 QY 121 EAQSGGD 127  
 DB 121 EAQSGGD 127

RESULT 5  
 US-10-039-413-4  
 Sequence 4, Application US/10039413  
 Publication No. US20020152480A1  
 GENERAL INFORMATION:  
 APPLICANT: Biere, Anja Leona  
 TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 FILE REFERENCE: A-565  
 CURRENT FILING DATE: 2002-01-04  
 PRIOR APPLICATION NUMBER: 60/101,862  
 PRIOR FILING DATE: 1998-09-25  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 4  
 LENGTH: 140  
 TYPE: PRT  
 ORGANISM: ADULT HUMAN BRAIN  
 US-10-039-413-4

Query Match 51.9%; Score 316.5; DB 13; Length 140;  
 Best Local Similarity 63.6%; Pred. No. 1e-21;  
 Matches 70; Conservative 10; Mismatches 27; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKKGAVGAVTEKTKGVTAEAEKTKGVMVYGAKTENNVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKKGAVGAVTEKTKGVTAEAEKTKGVMVYGAKTENNVQSVTSVAEKT 60  
 QY 61 EQANAVSAVSSVNTVATKTVEAEENIAVTSGVVRKEDLRPSAPQO 107  
 DB 61 EQANAVSAVSSVNTVATKTVEAEENIAVTSGVVRKEDLRPSAPQO 107

RESULT 6  
 US-10-039-413-3  
 Sequence 3, Application US/10039413  
 Publication No. US20020152480A1  
 GENERAL INFORMATION:  
 APPLICANT: Biere, Anja Leona  
 TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 FILE REFERENCE: A-565  
 CURRENT FILING DATE: 2002-01-04  
 PRIOR APPLICATION NUMBER: 60/101,862  
 PRIOR FILING DATE: 1998-09-25

NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 3  
 LENGTH: 140  
 TYPE: PRT  
 ORGANISM: ADULT HUMAN BRAIN  
 US-10-039-413-3

Query Match 51.1%; Score 311.5; DB 13; Length 140;  
 Best Local Similarity 62.7%; Pred. No. 2.9e-21;  
 Matches 69; Conservative 10; Mismatches 28; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKKGAVGAVTEKTKGVTAEAEKTKGVMVYGAKTENNVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKKGAVGAVTEKTKGVTAEAEKTKGVMVYGAKTENNVQSVTSVAEKT 60  
 QY 61 EQANAVSAVSSVNTVATKTVEAEENIAVTSGVVRKEDLRPSAPQO 107  
 DB 61 EQANAVSAVSSVNTVATKTVEAEENIAVTSGVVRKEDLRPSAPQO 107

RESULT 7  
 US-10-039-413-2  
 Sequence 2, Application US/10039413  
 Publication No. US20020152480A1  
 GENERAL INFORMATION:  
 APPLICANT: Biere, Anja Leona  
 TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 FILE REFERENCE: A-565  
 CURRENT FILING DATE: 2002-01-04  
 PRIOR APPLICATION NUMBER: 60/101,862  
 PRIOR FILING DATE: 1998-09-25  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 2  
 LENGTH: 140  
 TYPE: PRT  
 ORGANISM: ADULT HUMAN BRAIN  
 US-10-039-413-2

Query Match 50.6%; Score 308.5; DB 13; Length 140;  
 Best Local Similarity 61.8%; Pred. No. 5.5e-21;  
 Matches 68; Conservative 11; Mismatches 28; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKKGAVGAVTEKTKGVTAEAEKTKGVMVYGAKTENNVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKKGAVGAVTEKTKGVTAEAEKTKGVMVYGAKTENNVQSVTSVAEKT 60  
 QY 61 EQANAVSAVSSVNTVATKTVEAEENIAVTSGVVRKEDLRPSAPQO 107  
 DB 61 EQANAVSAVSSVNTVATKTVEAEENIAVTSGVVRKEDLRPSAPQO 107

RESULT 8  
 US-10-077-584-2  
 Sequence 2, Application US/10077584  
 Publication No. US20030073610A1  
 GENERAL INFORMATION:  
 APPLICANT: LINDQUIST, SUSAN  
 APPLICANT: KROBITSCH, SYLVIA  
 TITLE OF INVENTION: YEAST SCREENS FOR THE TREATMENT OF HUMAN DISEASE  
 FILE REFERENCE: ARCD.367US  
 CURRENT FILING DATE: 2002-02-15  
 PRIOR APPLICATION NUMBER: 60/269,157  
 PRIOR FILING DATE: 2001-02-15  
 NUMBER OF SEQ ID NOS: 9  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 2

LENGTH: 138  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-077-584-2

Query Match 50.4%; Score 307.5; DB 14; Length 138;  
 Best Local Similarity 61.8%; Pred. No. 6,7e-21;  
 Matches 68; Conservative 10; Mismatches 29; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKKGVGAVEKTKQGVTEAEAKTEKGVYVGAATKENVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKKGVGAVEKTKQGVTEAEAKTEKGVYVGAATKENVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVSSVNTVATKTVEAEENIAVTSGVKEDL--RPSAPQ 107  
 DB 61 EQVTNAGAVVTGVTAVAKTVEAGSIAAATGFVKDDQIGNNEGAPQE 110

RESULT 9  
 US-09-904-987-4  
 Sequence 4, Application US/09904987  
 Patent No. US20020037908A1  
 GENERAL INFORMATION:

APPLICANT: No. US20020037908A1aceyl, Inc.  
 TITLE OF INVENTION: Methods and Compositions for Controlling Pathological and Prepath  
 TITLE OF INVENTION: Protein Assembly or Aggregation  
 FILE REFERENCE: 42108/26146  
 CURRENT FILING DATE: US/09/904, 987  
 NUMBER OF SEQ ID NOS: 7  
 SOFTWARE: Patentin version 3.0  
 SEQ ID NO 4  
 LENGTH: 140  
 TYPE: PRT  
 ORGANISM: homo sapiens  
 PUBLICATION INFORMATION:  
 DATABASE ACCESSION NUMBER: NCBI ENTREZ / XM\_003494  
 DATABASE ENTRY DATE: 2001-04-16  
 RELEVANT RESIDUES: (1)..(140)  
 US-09-904-987-4

Query Match 50.4%; Score 307.5; DB 9; Length 140;  
 Best Local Similarity 61.8%; Pred. No. 6,9e-21;  
 Matches 68; Conservative 10; Mismatches 29; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKKGVGAVEKTKQGVTEAEAKTEKGVYVGAATKENVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKKGVGAVEKTKQGVTEAEAKTEKGVYVGAATKENVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVSSVNTVATKTVEAEENIAVTSGVKEDL--RPSAPQ 107  
 DB 61 EQVTNAGAVVTGVTAVAKTVEAGSIAAATGFVKDDQIGNNEGAPQE 110

RESULT 10  
 US-10-039-413-1  
 Sequence 1, Application US/10039413  
 Publication No. US20020152480A1  
 GENERAL INFORMATION:  
 APPLICANT: Biere, Anja Leona  
 TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPR-MUTANTS ACCELERATE  
 TITLE OF INVENTION: ALPHA-SYNUCLEIN AGGREGATION  
 FILE REFERENCE: A-565  
 CURRENT APPLICATION NUMBER: US/10/039, 413  
 CURRENT FILING DATE: 2002-01-04  
 PRIOR APPLICATION NUMBER: 60/101,862  
 PRIOR FILING DATE: 1998-09-25  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO 1  
 LENGTH: 140  
 TYPE: PRT

ORGANISM: ADULT HUMAN BRAIN  
 US-10-039-413-1

Query Match 50.4%; Score 307.5; DB 13; Length 140;  
 Best Local Similarity 61.8%; Pred. No. 6,9e-21;  
 Matches 68; Conservative 10; Mismatches 29; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKKGVGAVEKTKQGVTEAEAKTEKGVYVGAATKENVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKKGVGAVEKTKQGVTEAEAKTEKGVYVGAATKENVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVSSVNTVATKTVEAEENIAVTSGVKEDL--RPSAPQ 107  
 DB 61 EQVTNAGAVVTGVTAVAKTVEAGSIAAATGFVKDDQIGNNEGAPQE 110

RESULT 11  
 US-10-301-488A-54  
 Sequence 54, Application US/10301488A  
 Publication No. US20030166558A1  
 GENERAL INFORMATION:

APPLICANT: FRANGIONE, Blas  
 APPLICANT: WISNIEWSKI, Thomas  
 TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-DEPOSIT-FORMING POLYPEPTIDES AND  
 TITLE OF INVENTION: PEPTIDES HOMOLOGOUS TO AMYLOID BETA, PRION PROTEIN, AMYLIN,  
 TITLE OF INVENTION: ALPHA-SYNUCLEIN, OR POLYGLUTAMINE REPEATS FOR INDUCTION OF AN  
 TITLE OF INVENTION: IMMUNE RESPONSE THERETO  
 FILE REFERENCE: 5986/1K434US1  
 CURRENT APPLICATION NUMBER: US/10/301,488A  
 CURRENT FILING DATE: 2002-11-21  
 PRIOR APPLICATION NUMBER: US 60/331,801  
 PRIOR FILING DATE: 2001-11-21  
 NUMBER OF SEQ ID NOS: 55  
 SOFTWARE: Patentin version 3.1  
 SEQ ID NO 54  
 LENGTH: 140  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-301-488A-54

Query Match 50.4%; Score 307.5; DB 14; Length 140;  
 Best Local Similarity 61.8%; Pred. No. 6,9e-21;  
 Matches 68; Conservative 10; Mismatches 29; Indels 3; Gaps 1;

QY 1 MDVFKKGSIAKKGVGAVEKTKQGVTEAEAKTEKGVYVGAATKENVQSVTSVAEKT 60  
 DB 1 MDVFKKGSIAKKGVGAVEKTKQGVTEAEAKTEKGVYVGAATKENVQSVTSVAEKT 60  
 QY 61 EQANAVSKAVSSVNTVATKTVEAEENIAVTSGVKEDL--RPSAPQ 107  
 DB 61 EQVTNAGAVVTGVTAVAKTVEAGSIAAATGFVKDDQIGNNEGAPQE 110

RESULT 12  
 US-10-445-366-17  
 Sequence 17, Application US/10445366  
 Publication No. US20040014142A1  
 GENERAL INFORMATION:  
 APPLICANT: Vanmechele, Eugene  
 APPLICANT: Vanderstichele, Hugo  
 TITLE OF INVENTION: Differential Diagnosis of Neurodegeneration  
 TITLE OF INVENTION: DIFFERENTIAL DIAGNOSIS OF NEURODEGENERATION  
 FILE REFERENCE: 11362.0029.DUTS01 (INNS029--1)  
 CURRENT APPLICATION NUMBER: US/10/445,366  
 CURRENT FILING DATE: 2003-05-22  
 PRIOR APPLICATION NUMBER: US 09/720,707  
 PRIOR FILING DATE: 2000-12-29  
 PRIOR APPLICATION NUMBER: PCT/EP 99/04483  
 PRIOR FILING DATE: 1999-06-29  
 PRIOR APPLICATION NUMBER: 98870148.8  
 PRIOR FILING DATE: 1998-07-03  
 NUMBER OF SEQ ID NOS: 17





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; OTHER INFORMATION: 71, and 74, can be substituted with either all Glu, all Asp, all
; OTHER INFORMATION: Pro, or all Lys.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (40)..(40)
; OTHER INFORMATION: One or more of the three sets of valine residues, represented as
; OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70, 7
; OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,
; OTHER INFORMATION: or all Lys.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (48)..(49)
; OTHER INFORMATION: One or more of the three sets of valine residues, represented as
; OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70, 7
; OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,
; OTHER INFORMATION: or all Lys.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (52)..(52)
; OTHER INFORMATION: One or more of the three sets of valine residues, represented as
; OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70, 7
; OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,
; OTHER INFORMATION: or all Lys.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (70)..(71)
; OTHER INFORMATION: One or more of the three sets of valine residues, represented as
; OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70, 7
; OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,
; OTHER INFORMATION: or all Lys.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (74)..(74)
; OTHER INFORMATION: One or more of the three sets of valine residues, represented as
; OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70, 7
; OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,
; OTHER INFORMATION: or all Lys.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (74)..(74)
; OTHER INFORMATION: One or more of the three sets of valine residues, represented as
; OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70, 7
; OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,
; OTHER INFORMATION: or all Lys.
; US-10-301-488A-55

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Query Match      43.9%; Score 267.5; DB 14; Length 140;
Best Local Similarity 54.5%; Pred. No. 3.5e-17;
Matches 60; Conservative 10; Mismatches 37; Indels 3; Gaps 1;

QY      1 MDVFKGFSIAKKGVAVGVEKTKGVTGAETKKGVMYVGAATKKNVQSVTSVAEKK 60
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Db      1 MDVFMKGLSPAKGKVAAAEKTKGVAEAAGTKKGLTKGKXHXGXAIVAEKTK 60

QY      61 EQANAVSKAVVSSVNTVATKTVAEENIAVTSGVREKL---RPSAPQ 107
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      61 EQVTNIGAXXTGXTVAQKTVEGAGSIAATGTFVKKDKGKNEGAPQE 110

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Search completed: May 20, 2004, 14:46:52  
 Job time : 45 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 20, 2004, 14:44:04 ; Search time 23 Seconds  
(without alignments)  
285.065 Million cell updates/sec

Title: US-09-017-715A-2

Perfect score: 127  
Sequence: 1 MDVFKKGSIAKKGVAVGAVVE.....EGEASKKEBYAERAGSGD 127

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 369414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/2/1aa/5A\_COMB.pep:\*
- 2: /cgn2\_6/ptodata/2/1aa/5B\_COMB.pep:\*
- 3: /cgn2\_6/ptodata/2/1aa/6A\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/2/1aa/6B\_COMB.pep:\*
- 5: /cgn2\_6/ptodata/2/1aa/PCTUS\_COMB.pep:\*
- 6: /cgn2\_6/ptodata/2/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Length | ID                  | Description       |
|------------|-------|--------------|---------------------|-------------------|
| 1          | 127   | 100.0        | US-08-705-771-12    | Sequence 12, Appl |
| 2          | 127   | 100.0        | US-09-417-540-12    | Sequence 12, Appl |
| 3          | 18    | 14.2         | US-09-621-976-4469  | Sequence 4469, Ap |
| 4          | 8     | 6.3          | US-09-405-035-1     | Sequence 1, Appl  |
| 5          | 8     | 6.3          | US-09-405-035-2     | Sequence 2, Appl  |
| 6          | 8     | 6.3          | US-09-405-035-3     | Sequence 3, Appl  |
| 7          | 8     | 6.3          | US-09-405-035-4     | Sequence 4, Appl  |
| 8          | 6.3   | 140          | PCT-US94-09789-2    | Sequence 2, Appl  |
| 9          | 7     | 80           | US-09-543-681A-7619 | Sequence 7619, Ap |
| 10         | 7     | 120          | US-09-107-532A-4305 | Sequence 4305, Ap |
| 11         | 7     | 137          | US-09-107-532A-4048 | Sequence 4048, Ap |
| 12         | 7     | 151          | US-08-166-195A-2    | Sequence 2, Appl  |
| 13         | 7     | 151          | US-08-436-772-2     | Sequence 2, Appl  |
| 14         | 7     | 151          | US-08-436-883B-2    | Sequence 2, Appl  |
| 15         | 7     | 170          | US-09-242-299-2     | Sequence 2, Appl  |
| 16         | 7     | 279          | US-09-107-532A-6807 | Sequence 6807, Ap |
| 17         | 7     | 285          | US-09-543-681A-6168 | Sequence 6168, Ap |
| 18         | 7     | 293          | US-08-845-258-33    | Sequence 33, Appl |
| 19         | 7     | 293          | US-08-990-571-33    | Sequence 33, Appl |
| 20         | 7     | 293          | US-08-723-142A-33   | Sequence 33, Appl |
| 21         | 7     | 293          | US-09-528-098A-33   | Sequence 33, Appl |
| 22         | 7     | 293          | US-09-569-098A-33   | Sequence 33, Appl |
| 23         | 7     | 312          | US-09-134-000C-6207 | Sequence 6207, Ap |
| 24         | 7     | 357          | US-09-107-532A-5132 | Sequence 5132, Ap |
| 25         | 7     | 441          | US-08-764-870-9     | Sequence 9, Appl  |
| 26         | 7     | 441          | US-08-980-115-9     | Sequence 9, Appl  |
| 27         | 7     | 441          | US-09-976-594-1000  | Sequence 1000, Ap |

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|----|---|-----|------|---|----------------------|-------------------|
| 28 | 7 | 5.5 | 497  | 4 | US-09-252-991A-22660 | Sequence 22660, A |
| 29 | 7 | 5.5 | 571  | 4 | US-09-134-000C-5368  | Sequence 5368, Ap |
| 30 | 7 | 5.5 | 740  | 4 | US-09-107-532A-7211  | Sequence 7211, Ap |
| 31 | 7 | 5.5 | 1580 | 2 | US-08-804-227C-11    | Sequence 11, Appl |
| 32 | 7 | 5.5 | 1580 | 2 | US-08-804-198-5      | Sequence 5, Appl  |
| 33 | 7 | 5.5 | 1891 | 2 | US-08-804-227C-12    | Sequence 12, Appl |
| 34 | 7 | 5.5 | 1891 | 2 | US-08-804-198-6      | Sequence 6, Appl  |
| 35 | 6 | 4.7 | 8    | 2 | US-08-934-222-143    | Sequence 143, App |
| 36 | 6 | 4.7 | 8    | 2 | US-08-933-402-143    | Sequence 143, App |
| 37 | 6 | 4.7 | 8    | 2 | US-09-207-621-143    | Sequence 143, App |
| 38 | 6 | 4.7 | 8    | 2 | US-08-532-818-143    | Sequence 143, App |
| 39 | 6 | 4.7 | 8    | 3 | US-09-231-797-143    | Sequence 143, App |
| 40 | 6 | 4.7 | 8    | 3 | US-08-934-224-143    | Sequence 143, App |
| 41 | 6 | 4.7 | 8    | 3 | US-08-933-843-143    | Sequence 143, App |
| 42 | 6 | 4.7 | 8    | 3 | US-08-934-223-143    | Sequence 143, App |
| 43 | 6 | 4.7 | 8    | 3 | US-09-413-492-143    | Sequence 143, App |
| 44 | 6 | 4.7 | 19   | 3 | US-08-906-156A-77    | Sequence 77, Appl |
| 45 | 6 | 4.7 | 20   | 3 | US-08-695-301A-37    | Sequence 37, Appl |

ALIGNMENTS

RESULT 1  
US-08-705-771-12  
Sequence 12, Application US/08705771  
Patent No. 6054289  
GENERAL INFORMATION:  
APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,  
APPLICANT: Jian Ni and Jing-Shan Hu  
TITLE OF INVENTION: Human Genes, Sequences and  
TITLE OF INVENTION: Expression Products  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08705,771  
FILING DATE: August 30, 1996  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33, 073  
REFERENCE/DOCKET NUMBER: 325800-346 (PFI196)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 973-994-1744  
TELEFAX: 973-994-1744  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 127 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-705-771-12  
Query Match 100.0%; Score 127; DB 3; Length 127;  
Best Local Similarity 100.0%; Pred. No. 1.9e-116; Indels 0; Gaps 0;  
Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MDVFKKGSIAKKGVAVGAVVEKTGVTAEKTKGVMYVGAKTKENVVQSVTSVAEKT 60  
DB 1 MDVFKKGSIAKKGVAVGAVVEKTGVTAEKTKGVMYVGAKTKENVVQSVTSVAEKT 60

QY 61 EOANAVSKAVSSVNTVATKTYEAEENIAVTSQVRKEDLRPSAPQOEGEASKEKEVAE 120  
 DB 61 EOANAVSKAVSSVNTVATKTYEAEENIAVTSQVRKEDLRPSAPQOEGEASKEKEVAE 120  
 QY 121 EAOSGGD 127  
 DB 121 EAOSGGD 127

## RESULT 2

US-09-417-540-12  
 Sequence 12, Application US/09417540  
 Patent No. 6639052

## GENERAL INFORMATION:

APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,  
 Jian Ni and Jing-Shan Hu

TITLE OF INVENTION: Human Genes, Sequences and  
 Expression Products

NUMBER OF SEQUENCES: 22

CORRESPONDENCE ADDRESS:

ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
 CECCHI, STEWART & OLSTEIN

STREET: 6 BECKER FARM ROAD

CITY: ROSELAND

STATE: NEW JERSEY

COUNTRY: USA

ZIP: 07068

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 INCH DISKETTE

COMPUTER: IBM PS/2

OPERATING SYSTEM: MS-DOS

SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/417,540

FILING DATE: 14-Oct-1999

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/705,771

FILING DATE: August 30, 1996

ATTORNEY/AGENT INFORMATION:

NAME: MULINS, J.G.

REGISTRATION NUMBER: 33,073

REFERENCE/DOCKET NUMBER: 325800-346 (PFI96)

TELECOMMUNICATION INFORMATION:

TELEPHONE: 973-994-1700

TELEFAX: 973-994-1744

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 127 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 12:

US-09-417-540-12

Query Match 100.0%; Score 127; DB 4; Length 127;  
 Best Local Similarity 100.0%; Pred. No. 1.9e-116;  
 Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDVFKKGFSIAKGVGAVKTKQGVTEAAEKTKEGVYVGAATKENVSVTSVAEKT 60  
 DB 1 MDVFKKGFSIAKGVGAVKTKQGVTEAAEKTKEGVYVGAATKENVSVTSVAEKT 60  
 QY 61 EOANAVSKAVSSVNTVATKTYEAEENIAVTSQVRKEDLRPSAPQOEGEASKEKEVAE 120  
 DB 61 EOANAVSKAVSSVNTVATKTYEAEENIAVTSQVRKEDLRPSAPQOEGEASKEKEVAE 120  
 QY 121 EAOSGGD 127  
 DB 121 EAOSGGD 127

## RESULT 3

US-09-621-976-4469  
 Sequence 4469, Application US/09621976  
 Patent No. 6639063  
 GENERAL INFORMATION:  
 APPLICANT: Dumas Milne Edwards, J.B.  
 APPLICANT: Jobert, S.  
 APPLICANT: Giordano, J.Y.  
 TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
 FILE REFERENCE: GENSET.054PR2  
 CURRENT APPLICATION NUMBER: US/09/621,976  
 CURRENT FILING DATE: 2000-07-21  
 NUMBER OF SEQ ID NOS: 19335  
 SOFTWARE: Patent.pm  
 SEQ ID NO 4469  
 LENGTH: 54  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-621-976-4469

Query Match 14.2%; Score 18; DB 4; Length 54;  
 Best Local Similarity 100.0%; Pred. No. 2e-10;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 EKTQGVTEAAEKTKEGV 37  
 DB 20 EKTQGVTEAAEKTKEGV 37

## RESULT 4

US-09-405-035-1  
 Sequence 1, Application US/09405035  
 Patent No. 6184351

## GENERAL INFORMATION:

APPLICANT: Biere, Anja Leona

TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE

FILE REFERENCE: A-565

CURRENT APPLICATION NUMBER: US/09/405,035

FILING DATE: 1999-09-24

EARLIER FILING DATE: 1998-09-25

NUMBER OF SEQ ID NOS: 6

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 1

LENGTH: 140

TYPE: PRT

ORGANISM: ADULT HUMAN BRAIN

US-09-405-035-1

Query Match 6.3%; Score 8; DB 3; Length 140;  
 Best Local Similarity 100.0%; Pred. No. 2.6;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
 DB 55 VAEKTEQ 62

## RESULT 5

US-09-405-035-2  
 Sequence 2, Application US/09405035  
 Patent No. 6184351

## GENERAL INFORMATION:

APPLICANT: Biere, Anja Leona

TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE

FILE REFERENCE: A-565

CURRENT APPLICATION NUMBER: US/09/405,035

FILING DATE: 1999-09-24

EARLIER FILING DATE: 1998-09-25

NUMBER OF SEQ ID NOS: 60/101,862

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 1

LENGTH: 140

TYPE: PRT

ORGANISM: ADULT HUMAN BRAIN

US-09-405-035-1

NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 140  
; TYPE: PRT  
; ORGANISM: ADULT HUMAN BRAIN  
US-09-405-035-2

Query Match 6.3%; Score 8; DB 3; Length 140;  
Best Local Similarity 100.0%; Pred. No. 2.6;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
Db 55 VAEKTEQ 62

RESULT 6  
US-09-405-035-3  
; Sequence 3, Application US/09405035  
; Patent No. 6184351  
; GENERAL INFORMATION:  
; APPLICANT: Biere, Anja Leona  
; APPLICANT: Citron, Martin  
; TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
; FILE REFERENCE: A-565  
; CURRENT APPLICATION NUMBER: US/09/405,035  
; CURRENT FILING DATE: 1999-09-24  
; EARLIER APPLICATION NUMBER: 60/101,862  
; EARLIER FILING DATE: 1998-09-25  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 140  
; TYPE: PRT  
; ORGANISM: ADULT HUMAN BRAIN  
US-09-405-035-3

Query Match 6.3%; Score 8; DB 3; Length 140;  
Best Local Similarity 100.0%; Pred. No. 2.6;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
Db 55 VAEKTEQ 62

RESULT 7  
US-09-405-035-4  
; Sequence 4, Application US/09405035  
; Patent No. 6184351  
; GENERAL INFORMATION:  
; APPLICANT: Biere, Anja Leona  
; APPLICANT: Citron, Martin  
; TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
; FILE REFERENCE: A-565  
; CURRENT APPLICATION NUMBER: US/09/405,035  
; CURRENT FILING DATE: 1999-09-24  
; EARLIER APPLICATION NUMBER: 60/101,862  
; EARLIER FILING DATE: 1998-09-25  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 140  
; TYPE: PRT  
; ORGANISM: ADULT HUMAN BRAIN  
US-09-405-035-4

Query Match 6.3%; Score 8; DB 3; Length 140;  
Best Local Similarity 100.0%; Pred. No. 2.6;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
Db 55 VAEKTEQ 62

RESULT 8  
PCT-US94-09789-2  
; Sequence 2, Application PC/TUS9409789  
; GENERAL INFORMATION:  
; APPLICANT: The Regents of the University of California  
; TITLE OF INVENTION: NOVEL COMPONENT OF AMYLOID IN  
; TITLE OF INVENTION: ALZHEIMER'S DISEASE AND METHODS FOR USE OF SAME  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Spensley Horn Judas & Lubitz  
; STREET: 1880 Century Park East - Suite 500  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: USA  
; ZIP: 90067  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/09789  
; FILING DATE: 29-AUG-1994  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Howells, Stacy L.  
; REGISTRATION NUMBER: 34,842  
; REFERENCE/DOCKET NUMBER: FD-3520  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 455-5100  
; TELEFAX: (619) 455-5110  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 140 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; IMMEDIATE SOURCE:  
; CLONE: NACP  
; FEATURE:  
; NAME/KEY: Protein  
; LOCATION: 1..140  
PCT-US94-09789-2

Query Match 6.3%; Score 8; DB 5; Length 140;  
Best Local Similarity 100.0%; Pred. No. 2.6;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
Db 55 VAEKTEQ 62

RESULT 9  
US-09-543-681A-7619  
; Sequence 7619, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BRETON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09

NUMBER OF SEQ ID NOS: 8344  
SEQ ID NO: 7619  
LENGTH: 80  
TYPE: PRT  
ORGANISM: Proteus mirabilis  
US-09-543-681A-7619

Query Match 5.5%; Score 7; DB 4; Length 80;  
Best Local Similarity 100.0%; Pred. No. 15;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 90 VTSQVVR 96  
|||||  
DB 56 VTSQVVR 62

RESULT 10  
US-09-107-532A-4305  
Sequence 4305, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESSEE: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:

MEDIUM TYPE: CD-ROM ISO9660

COMPUTER: PC

OPERATING SYSTEM: <Unknown>

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A

FILING DATE: 30-Jun-1998

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/085,598

FILING DATE: 14 May 1998

APPLICATION NUMBER: 60/051571

FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:

NAME: Arinello, Pamela Deneka

REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-012

TELECOMMUNICATION INFORMATION:

TELEPHONE: (781)893-5007

TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 4305:

SEQUENCE CHARACTERISTICS:

LENGTH: 120 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: YES

ORIGINAL SOURCE:

ORGANISM: Enterococcus faecium

FEATURE:

NAME/KEY: misc feature

LOCATION: (B) LOCATION 1...120

SEQUENCE DESCRIPTION: SEQ ID NO: 4305:

US-09-107-532A-4305

Query Match 5.5%; Score 7; DB 4; Length 120;  
Best Local Similarity 100.0%; Pred. No. 21;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 111 ASKEKEE 117  
|||||

DB 10 ASKEKEE 16

RESULT 11  
US-09-107-532A-4048  
Sequence 4048, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESSEE: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:

MEDIUM TYPE: CD-ROM ISO9660

COMPUTER: PC

OPERATING SYSTEM: <Unknown>

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A

FILING DATE: 30-Jun-1998

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/085,598

FILING DATE: 14 May 1998

APPLICATION NUMBER: 60/051571

FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:

NAME: Arinello, Pamela Deneka

REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-012

TELECOMMUNICATION INFORMATION:

TELEPHONE: (781)893-5007

TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 4048:

SEQUENCE CHARACTERISTICS:

LENGTH: 137 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: YES

ORIGINAL SOURCE:

ORGANISM: Enterococcus faecium

FEATURE:

NAME/KEY: misc feature

LOCATION: (B) LOCATION 1...137

SEQUENCE DESCRIPTION: SEQ ID NO: 4048:

US-09-107-532A-4048

Query Match 5.5%; Score 7; DB 4; Length 137;  
Best Local Similarity 100.0%; Pred. No. 24;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 77 VAKTIVE 83  
|||||  
DB 91 VAKTIVE 97

RESULT 12

US-08-166-195A-2

Sequence 2, Application US/08166195A

Patent No. 5480795

GENERAL INFORMATION:

APPLICANT: O'Rand, Michael G.

APPLICANT: Widgren, Esther E.

APPLICANT: Richardson, Richard T.

APPLICANT: Lee, Isabel

TITLE OF INVENTION: Sperm Antigen Corresponding to a

TITLE OF INVENTION: Sperm Zona Binding Protein Autoantigenic Epitope  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kenneth D. Sibley  
STREET: P.O. Box 34009  
CITY: Charlotte  
STATE: No. 5480799th Carolina  
COUNTRY: USA  
ZIP: 28234  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/166,195A  
FILING DATE: 10 DEC 1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Sibley, Kenneth D.  
REGISTRATION NUMBER: 31,665  
REFERENCE/DOCKET NUMBER: 5470/73  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 919-881-3140  
TELEFAX: 919-881-3175  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 151 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-166-195A-2

Query Match 5.5%; Score 7; DB 1; Length 151;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 113 KEKEEVA 119  
DB 111 KEKEEVA 117

RESULT 13  
US-08-436-772-2  
Sequence 2, Application US/08436772  
Patent No. 5814456  
GENERAL INFORMATION:  
APPLICANT: O'Rand, Michael G.  
APPLICANT: Widgren, Esther E.  
APPLICANT: Richardson, Richard T.  
APPLICANT: Lea, Isabel  
TITLE OF INVENTION: Sperm Antigen Corresponding to a Sperm  
TITLE OF INVENTION: Zona Binding Protein Autoantigenic Epitope  
NUMBER OF SEQUENCES: 60  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kenneth D. Sibley  
STREET: P.O. Box 34009  
CITY: Charlotte  
STATE: No. 5814456th Carolina  
COUNTRY: USA  
ZIP: 28234  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/436,772  
FILING DATE: 08-MAY-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Sibley, Kenneth D.  
REGISTRATION NUMBER: 31,665

REFERENCE/DOCKET NUMBER: 5470-73B  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 919-881-3140  
TELEFAX: 919-881-3175  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 151 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-436-772-2

Query Match 5.5%; Score 7; DB 2; Length 151;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 113 KEKEEVA 119  
DB 111 KEKEEVA 117

RESULT 14  
US-08-436-883B-2  
Sequence 2, Application US/08436883B  
Patent No. 5820861  
GENERAL INFORMATION:  
APPLICANT: O'Rand, Michael G.  
APPLICANT: Widgren, Esther E.  
APPLICANT: Richardson, Richard T.  
APPLICANT: Lea, Isabel  
TITLE OF INVENTION: Sperm Antigen Corresponding to a Sperm  
TITLE OF INVENTION: Zona Binding Protein Autoantigenic Epitope  
NUMBER OF SEQUENCES: 60  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kenneth D. Sibley  
STREET: P.O. Box 34009  
CITY: Charlotte  
STATE: No. 5820861th Carolina  
COUNTRY: USA  
ZIP: 28234  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/436,883B  
FILING DATE: 08-MAY-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Sibley, Kenneth D.  
REGISTRATION NUMBER: 31,665  
REFERENCE/DOCKET NUMBER: 5470-73C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 919-420-2200  
TELEFAX: 919-881-3175  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 151 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-436-883B-2

Query Match 5.5%; Score 7; DB 2; Length 151;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 113 KEKEEVA 119  
DB 111 KEKEEVA 117

## RESULT 15

US-09-242-299-2

; Sequence 2, Application US/09242299

; Patent No. 6610301

; GENERAL INFORMATION:

; APPLICANT: Motz, Manfred

; APPLICANT: Sautscheck, Erwin

; TITLE OF INVENTION: Immunologically active proteins from Borrelia burgdorferi, nucle

; TITLE OF INVENTION: acids which encode them, and their use in test kits and as vaccin

; FILE REFERENCE: 738.005US1

; CURRENT APPLICATION NUMBER: US/09/242,299

; CURRENT FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: PCT/EP97/04215

; PRIOR FILING DATE: 1997-08-01

; PRIOR APPLICATION NUMBER: DE 19632862.4

; PRIOR FILING DATE: 1996-08-14

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 170

; TYPE: PRT

; ORGANISM: Borrelia burgdorferi

US-09-242-299-2

Query Match 5.5%; Score 7; DB 4; Length 170;

Best Local Similarity 100.0%; Pred. No. 29;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 79 TKVEEA 85

Db 129 TKVEEA 135

Search completed: May 20, 2004, 14:47:28

Job time : 24 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 20, 2004, 14:45:59 ; Search time 44 Seconds  
(Without alignments)  
805.069 Million cell updates/sec

Title: US-09-017-715A-2

Perfect score: 127  
Sequence: 1 MDVKKGRSIRAKGVGAVR.....EGEASKEKEVAERAGSGD 127

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 1149313 seqs, 278921704 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1149313

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*
- 2: /cgn2\_6/ptodata/1/pubpaa/ECT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubpaa/ECTS\_PUBCOMB.pep:\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep:\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep:\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep:\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep:\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep:\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description       |
|------------|-------|-------------|--------|-------|-------------------|
| 1          | 127   | 100.0       | 127    | 15    | US-10-453-478-12  |
| 2          | 59    | 46.5        | 163    | 12    | US-09-925-298-589 |
| 3          | 54    | 46.5        | 163    | 14    | US-10-102-806-589 |
| 4          | 54    | 46.5        | 127    | 14    | US-10-097-340-298 |
| 5          | 17    | 13.4        | 32     | 14    | US-10-223-978-3   |
| 6          | 8     | 6.3         | 138    | 14    | US-10-077-584-2   |
| 7          | 8     | 6.3         | 140    | 9     | US-09-904-987-4   |
| 8          | 8     | 6.3         | 140    | 12    | US-10-112-944-255 |
| 9          | 8     | 6.3         | 140    | 13    | US-10-039-413-1   |
| 10         | 8     | 6.3         | 140    | 13    | US-10-039-413-2   |
| 11         | 8     | 6.3         | 140    | 13    | US-10-039-413-3   |
| 12         | 8     | 6.3         | 140    | 13    | US-10-039-413-4   |
| 13         | 8     | 6.3         | 140    | 14    | US-10-301-488A-54 |
| 14         | 8     | 6.3         | 140    | 14    | US-10-301-488A-55 |
| 15         | 8     | 6.3         | 140    | 15    | US-10-445-366-17  |

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|----|---|-----|------|----|----------------------|
| 16 | 8 | 6.3 | 143  | 12 | US-10-424-599-148905 |
| 17 | 8 | 6.3 | 367  | 14 | US-10-223-978-7      |
| 18 | 8 | 6.3 | 381  | 12 | US-10-369-993-3484   |
| 19 | 8 | 6.3 | 793  | 15 | US-10-282-122A-60438 |
| 20 | 8 | 6.3 | 910  | 12 | US-10-425-114-54499  |
| 21 | 7 | 5.5 | 30   | 9  | US-09-864-761-47813  |
| 22 | 7 | 5.5 | 47   | 9  | US-09-864-761-45900  |
| 23 | 7 | 5.5 | 72   | 12 | US-10-424-599-234616 |
| 24 | 7 | 5.5 | 79   | 12 | US-10-282-122A-68458 |
| 25 | 7 | 5.5 | 95   | 12 | US-10-425-114-37600  |
| 26 | 7 | 5.5 | 134  | 12 | US-10-424-599-171309 |
| 27 | 7 | 5.5 | 165  | 12 | US-10-424-599-280189 |
| 28 | 7 | 5.5 | 170  | 14 | US-10-403-220-2      |
| 29 | 7 | 5.5 | 202  | 12 | US-10-424-599-259159 |
| 30 | 7 | 5.5 | 205  | 12 | US-10-282-122A-53716 |
| 31 | 7 | 5.5 | 211  | 12 | US-10-424-599-250133 |
| 32 | 7 | 5.5 | 293  | 9  | US-09-737-178-33     |
| 33 | 7 | 5.5 | 293  | 9  | US-09-286-488-33     |
| 34 | 7 | 5.5 | 293  | 16 | US-10-294-443-33     |
| 35 | 7 | 5.5 | 293  | 16 | US-10-294-443-325    |
| 36 | 7 | 5.5 | 293  | 16 | US-10-294-443-325    |
| 37 | 7 | 5.5 | 305  | 12 | US-10-424-599-233089 |
| 38 | 7 | 5.5 | 325  | 12 | US-10-424-599-232458 |
| 39 | 7 | 5.5 | 362  | 12 | US-10-282-122A-53755 |
| 40 | 7 | 5.5 | 416  | 12 | US-10-425-114-69002  |
| 41 | 7 | 5.5 | 569  | 9  | US-09-815-242-10503  |
| 42 | 7 | 5.5 | 578  | 12 | US-10-425-114-55229  |
| 43 | 7 | 5.5 | 740  | 12 | US-10-282-122A-57981 |
| 44 | 7 | 5.5 | 1133 | 15 | US-10-369-493-1423   |
| 45 | 7 | 5.5 | 1383 | 14 | US-10-021-955-82     |

## ALIGNMENTS

RESULT 1  
US-10-453-478-12  
Sequence 12, Application US/10453478  
Publication No. US20030208043A1  
GENERAL INFORMATION:  
APPLICANT: Paul Moore, Reiner Gentz, Hongjin Ji,  
Jian Ni and Jing-Shan Hu  
TITLE OF INVENTION: Human Genes, Sequences and  
Expression Products  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESSES:  
ADDRESSEES: CARILLA, BYRNE, BAIN, GILFILLAN,  
CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/453,478  
FILING DATE: 04-Jun-2003  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/705,771  
FILING DATE: August 30, 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-346 (PP196)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 973-994-1700  
TELEFAX: 973-994-1744  
INFORMATION FOR SEQ ID NO: 12:

Sequence 148905,  
Sequence 7, Appli  
Sequence 3484, Ap  
Sequence 60438, A  
Sequence 54499, A  
Sequence 47813, A  
Sequence 45900, A  
Sequence 234616,  
Sequence 68458, A  
Sequence 37600, A  
Sequence 171309,  
Sequence 280189,  
Sequence 2, Appli  
Sequence 259159,  
Sequence 53716, A  
Sequence 250133,  
Sequence 33, Appli  
Sequence 33, Appli  
Sequence 33, Appli  
Sequence 225, App  
Sequence 233089,  
Sequence 232458,  
Sequence 53755, A  
Sequence 69002, A  
Sequence 10503, A  
Sequence 55229, A  
Sequence 57981, A  
Sequence 1423, Ap  
Sequence 82, Appli

SEQUENCE CHARACTERISTICS:  
LENGTH: 127 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
US-10-453-478-12

Query Match 100.0%; Score 127; DB 15; Length 127;  
Best Local Similarity 100.0%; Pred. No. 5.2e-112;  
Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGVFKGFSIAKGVGAVGAEKTKGQGTAEAKTKGSGWTVGAKTENVVOSTVSAEKKK 60  
DB 1 MGVFKGFSIAKGVGAVGAEKTKGQGTAEAKTKGSGWTVGAKTENVVOSTVSAEKKK 60  
QY 61 EQANVSKAVSVSVTVATKTVEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEVAE 120  
DB 61 EQANVSKAVSVSVTVATKTVEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEVAE 120  
QY 121 EAQSGGD 127  
DB 121 EAQSGGD 127

RESULT 2  
US-09-925-298-589  
Sequence 589, Application US/09925298  
Publication No. US20020039764A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA103  
CURRENT APPLICATION NUMBER: US/09/925,298  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05881  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 846  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 589  
LENGTH: 163  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-925-298-589

Query Match 46.5%; Score 59; DB 12; Length 163;  
Best Local Similarity 100.0%; Pred. No. 1.1e-47;  
Matches 59; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 69 AVVSVTVATKTVEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEVAEQAQSGD 127  
DB 105 AVVSVTVATKTVEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEVAEQAQSGD 163

RESULT 3  
US-10-102-806-589  
Sequence 589, Application US/10102806  
Publication No. US20030054421A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA103P1C1  
CURRENT APPLICATION NUMBER: US/10/102,806  
CURRENT FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: 09/925,298  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05881  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 846

SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 589  
LENGTH: 163  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-102-806-589

Query Match 46.5%; Score 59; DB 14; Length 163;  
Best Local Similarity 100.0%; Pred. No. 1.1e-47;  
Matches 59; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 69 AVVSVTVATKTVEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEVAEQAQSGD 127  
DB 105 AVVSVTVATKTVEAEENIAVTSGVVRKEDLRPSAPQOEGEASKEKEVAEQAQSGD 163

RESULT 4  
US-10-097-340-298  
Sequence 298, Application US/10097340  
Publication No. US20030087250A1  
GENERAL INFORMATION:  
APPLICANT: John MONAHAN  
APPLICANT: Manjula GANNAVAPU  
APPLICANT: Sebastian HOERSCH  
APPLICANT: Shubhangi KAMATKAR  
APPLICANT: Steve G. KOVATS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Ami SEN  
APPLICANT: Peter VEIBY  
APPLICANT: Gordon B. MILLS  
APPLICANT: Robert C. BAST, Jr.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHMADT  
APPLICANT: Xumei ZHAO  
APPLICANT: Karen GLATT  
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
Assessment, Prevention, and Therapy of Ovarian Cancer  
FILE REFERENCE: MRI-030  
CURRENT APPLICATION NUMBER: US/10/097,340  
CURRENT FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: 60/276,025  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/325,149  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/276,026  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/324,967  
PRIOR FILING DATE: 2001/09/26  
PRIOR APPLICATION NUMBER: 60/311,732  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/325,102  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/323,580  
PRIOR FILING DATE: 2001-09-19  
NUMBER OF SEQ ID NOS: 363  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 298  
LENGTH: 127  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-097-340-298

Query Match 42.5%; Score 54; DB 14; Length 127;  
Best Local Similarity 100.0%; Pred. No. 4.6e-43;  
Matches 54; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 GVGAVGKTKGVTAEAKTKGSGWTVGAKTENVVOSTVSAEKKKEQANVS 67  
DB 14 GVGAVGKTKGVTAEAKTKGSGWTVGAKTENVVOSTVSAEKKKEQANVS 67

RESULT 5  
US-10-223-978-3  
; Sequence 3, Application US/10223978  
; Publication No. US20030125522A1  
; GENERAL INFORMATION:  
; APPLICANT: Aegen Co., Ltd.  
; APPLICANT: Kim, Jong-Sun  
; TITLE OF INVENTION: No. US20030125522A1el Peptides Conferring Environmental Stress Re  
; TITLE OF INVENTION: Proteins Including Said Peptides  
; FILE REFERENCE: 59520-00003  
; CURRENT APPLICATION NUMBER: US/10/223,978  
; CURRENT FILING DATE: 2002-08-20  
; NUMBER OF SEQ ID NOS: 37  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 32  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)..(32)  
; OTHER INFORMATION: Acidic tail amino acid sequence 96-127 of gamma-synuclein  
US-10-223-978-3

Query Match 13.4%; Score 17; DB 14; Length 32;  
Best Local Similarity 100.0%; Pred. No. 1.1e-08;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 111 ASKEKEVAEAEQSGD 127  
DB 16 ASKEKEVAEAEQSGD 32

RESULT 6  
US-10-077-584-2  
; Sequence 2, Application US/10077584  
; Publication No. US20030073610A1  
; GENERAL INFORMATION:  
; APPLICANT: LINDQUIST, SUSAN  
; APPLICANT: KROBITSCH, SYLVIA  
; APPLICANT: OUTEIRO, TIAGO F.  
; TITLE OF INVENTION: YEAST SCREENS FOR THE TREATMENT OF HUMAN DISEASE  
; FILE REFERENCE: ARCD:367US  
; CURRENT APPLICATION NUMBER: US/10/077,584  
; CURRENT FILING DATE: 2002-02-15  
; PRIOR APPLICATION NUMBER: 60/269,157  
; PRIOR FILING DATE: 2001-02-15  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 138  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-077-584-2

Query Match 6.3%; Score 8; DB 14; Length 138;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTKEQ 62  
DB 55 VAEKTKEQ 62

RESULT 7  
US-09-904-987-4  
; Sequence 4, Application US/09904987  
; Patent No. US20020037908A1  
; GENERAL INFORMATION:  
; APPLICANT: No. US20020037908A1actyl, Inc.  
; TITLE OF INVENTION: Methods and Compositions for Controlling Pathological and Prepath  
; TITLE OF INVENTION: Protein Assembly or Aggregation  
; FILE REFERENCE: 42108/26146

CURRENT APPLICATION NUMBER: US/09/904,987  
; CURRENT FILING DATE: 2001-07-12  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 140  
; TYPE: PRT  
; ORGANISM: homo sapiens  
; PUBLICATION INFORMATION:  
; DATABASE ACCESSION NUMBER: NCBI ENTREZ / XM\_003494  
; DATABASE ENTRY DATE: 2001-04-16  
; RELEVANT RESIDUES: (1)..(140)  
US-09-904-987-4

Query Match 6.3%; Score 8; DB 9; Length 140;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTKEQ 62  
DB 55 VAEKTKEQ 62

RESULT 8  
US-10-112-944-255  
; Sequence 255, Application US/10112944  
; Publication No. US20040048249A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Yang, Yonghong  
; APPLICANT: Wang, Gezhi  
; APPLICANT: Zhang, Jie  
; APPLICANT: Ren, Feiyun  
; APPLICANT: Xue, Aidong J.  
; APPLICANT: Wang, Jian-Rui  
; APPLICANT: Wehrman, Tom  
; APPLICANT: Ghosh, Malabika  
; APPLICANT: Wang, Dunrui  
; APPLICANT: Zhao, Qing A.  
; APPLICANT: Wang, Zhiwei  
; TITLE OF INVENTION: No. US20040048249A1el Nucleic Acids and  
; TITLE OF INVENTION: Secreted Polypeptides  
; FILE REFERENCE: 805A  
; CURRENT APPLICATION NUMBER: US/10/112,944  
; CURRENT FILING DATE: 2002-03-28  
; PRIOR APPLICATION NUMBER: US 09/488,725  
; PRIOR FILING DATE: 2000-01-21  
; PRIOR APPLICATION NUMBER: US 09/491,404  
; PRIOR FILING DATE: 2000-01-25  
; PRIOR APPLICATION NUMBER: US 09/496,914  
; PRIOR FILING DATE: 2000-02-03  
; PRIOR APPLICATION NUMBER: US 09/515,126  
; PRIOR FILING DATE: 2000-02-28  
; PRIOR APPLICATION NUMBER: US 09/519,705  
; PRIOR FILING DATE: 2000-03-07  
; PRIOR APPLICATION NUMBER: US 09/540,217  
; PRIOR FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: US 09/552,929  
; PRIOR FILING DATE: 2000-04-18  
; PRIOR APPLICATION NUMBER: US 09/577,408  
; PRIOR FILING DATE: 2000-05-18  
; NUMBER OF SEQ ID NOS: 924  
; SOFTWARE: pc\_fl\_genes Version 5.0  
; SEQ ID NO 255  
; LENGTH: 140  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-112-944-255

Query Match 6.3%; Score 8; DB 12; Length 140;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
 |||||  
 DB 55 VAEKTEQ 62

RESULT 9  
 US-10-039-413-1  
 ; Sequence 1, Application US/10039413  
 ; Publication No. US20020152480A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Biere, Anja-Leona  
 ; APPLICANT: Citron, Martin  
 ; TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 ; FILE REFERENCE: A-565  
 ; CURRENT APPLICATION NUMBER: US/10/039,413  
 ; CURRENT FILING DATE: 2002-01-04  
 ; PRIOR APPLICATION NUMBER: 60/101,862  
 ; PRIOR FILING DATE: 1998-09-25  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: Patentin Ver. 2.0  
 ; SEQ ID NO 1  
 ; LENGTH: 140  
 ; TYPE: PRT  
 ; ORGANISM: ADULT HUMAN BRAIN  
 US-10-039-413-1

Query Match 6.3%; Score 8; DB 13; Length 140;  
 Best Local Similarity 100.0%; Pred. No. 14;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
 |||||  
 DB 55 VAEKTEQ 62

RESULT 10  
 US-10-039-413-2  
 ; Sequence 2, Application US/10039413  
 ; Publication No. US20020152480A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Biere, Anja-Leona  
 ; APPLICANT: Citron, Martin  
 ; TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 ; FILE REFERENCE: A-565  
 ; CURRENT APPLICATION NUMBER: US/10/039,413  
 ; CURRENT FILING DATE: 2002-01-04  
 ; PRIOR APPLICATION NUMBER: 60/101,862  
 ; PRIOR FILING DATE: 1998-09-25  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: Patentin Ver. 2.0  
 ; SEQ ID NO 2  
 ; LENGTH: 140  
 ; TYPE: PRT  
 ; ORGANISM: ADULT HUMAN BRAIN  
 US-10-039-413-2

Query Match 6.3%; Score 8; DB 13; Length 140;  
 Best Local Similarity 100.0%; Pred. No. 14;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
 |||||  
 DB 55 VAEKTEQ 62

RESULT 11  
 US-10-039-413-3  
 ; Sequence 3, Application US/10039413  
 ; Publication No. US20020152480A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Biere, Anja-Leona

APPLICANT: Citron, Martin  
 ; TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 ; FILE REFERENCE: A-565  
 ; CURRENT APPLICATION NUMBER: US/10/039,413  
 ; CURRENT FILING DATE: 2002-01-04  
 ; PRIOR APPLICATION NUMBER: 60/101,862  
 ; PRIOR FILING DATE: 1998-09-25  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: Patentin Ver. 2.0  
 ; SEQ ID NO 3  
 ; LENGTH: 140  
 ; TYPE: PRT  
 ; ORGANISM: ADULT HUMAN BRAIN  
 US-10-039-413-3

Query Match 6.3%; Score 8; DB 13; Length 140;  
 Best Local Similarity 100.0%; Pred. No. 14;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
 |||||  
 DB 55 VAEKTEQ 62

RESULT 12  
 US-10-039-413-4  
 ; Sequence 4, Application US/10039413  
 ; Publication No. US20020152480A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Biere, Anja-Leona  
 ; APPLICANT: Citron, Martin  
 ; TITLE OF INVENTION: ALPHA-SYNUCLEIN SUPER-MUTANTS ACCELERATE  
 ; FILE REFERENCE: A-565  
 ; CURRENT APPLICATION NUMBER: US/10/039,413  
 ; CURRENT FILING DATE: 2002-01-04  
 ; PRIOR APPLICATION NUMBER: 60/101,862  
 ; PRIOR FILING DATE: 1998-09-25  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: Patentin Ver. 2.0  
 ; SEQ ID NO 4  
 ; LENGTH: 140  
 ; TYPE: PRT  
 ; ORGANISM: ADULT HUMAN BRAIN  
 US-10-039-413-4

Query Match 6.3%; Score 8; DB 13; Length 140;  
 Best Local Similarity 100.0%; Pred. No. 14;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 VAEKTEQ 62  
 |||||  
 DB 55 VAEKTEQ 62

RESULT 13  
 US-10-301-488A-54  
 ; Sequence 54, Application US/10301488A  
 ; Publication No. US2003016558A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: FRANGIONE, Blae  
 ; APPLICANT: WISNIEWSKI, Thomas  
 ; APPLICANT: SIGURDSSON, Einar  
 ; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-DEPOSIT-FORMING POLYPEPTIDES AND  
 ; TITLE OF INVENTION: PEPTIDES HOMOLOGOUS TO AMYLOID BETA, PRION PROTEIN, AMYLIN,  
 ; TITLE OF INVENTION: ALPHA-SYNUCLEIN, OR POLYGLUTAMINE REPEATS FOR INDUCTION OF AN  
 ; FILE REFERENCE: 5986/1K434US1  
 ; CURRENT APPLICATION NUMBER: US/10/301,488A  
 ; CURRENT FILING DATE: 2002-11-21  
 ; PRIOR APPLICATION NUMBER: US 60/331,801  
 ; PRIOR FILING DATE: 2001-11-21

NUMBER OF SEQ ID NOS: 55  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 54  
LENGTH: 140  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-301-488A-54

Query Match  
Best Local Similarity 6.3%; Score 8; DB 14; Length 140;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

55 VAEKTEQ 62  
Db 55 VAEKTEQ 62

RESULT 14  
US-10-301-488A-55  
Sequence 55, Application US/10301488A  
Publication No. US20030166558A1  
GENERAL INFORMATION:  
APPLICANT: FRANGIONE, Blas  
APPLICANT: WISNIEWSKI, Thomas  
APPLICANT: SIGURDSSON, Einar  
TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-DEPOSIT-FORMING POLYPEPTIDES AND  
TITLE OF INVENTION: PEPTIDES HOMOLOGOUS TO AMYLOID BETA, PRION PROTEIN, AMYLIN,  
TITLE OF INVENTION: ALPHA-SYNUCLEIN, OR POLYGLUTAMINE REPEATS FOR INDUCTION OF AN  
FILE REFERENCE: 5986/LK34US1  
CURRENT APPLICATION NUMBER: US/10/301,488A  
CURRENT FILING DATE: 2002-11-21  
PRIOR APPLICATION NUMBER: US 60/331,801  
PRIOR FILING DATE: 2001-11-21  
NUMBER OF SEQ ID NOS: 55  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 55  
LENGTH: 140  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: synthetic  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (37)..(37)  
OTHER INFORMATION: One or more of the three sets of valine residues, represented as  
OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70,  
OTHER INFORMATION: 71, and 74, can be substituted with either all Glu, all Asp, all  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (40)..(40)  
OTHER INFORMATION: One or more of the three sets of valine residues, represented as  
OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70,  
OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (48)..(49)  
OTHER INFORMATION: One or more of the three sets of valine residues, represented as  
OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70,  
OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (52)..(52)  
OTHER INFORMATION: One or more of the three sets of valine residues, represented as  
OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70,  
OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (70)..(71)

OTHER INFORMATION: One or more of the three sets of valine residues, represented as  
OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70, 71  
OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,  
OTHER INFORMATION: or all Lys.  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (74)..(74)  
OTHER INFORMATION: One or more of the three sets of valine residues, represented as  
OTHER INFORMATION: Xaa residue sets (1) 37 and 40; (2) 48, 49, and 52; and (3) 70, 71  
OTHER INFORMATION: and 74, can be substituted with either all Glu, all Asp, all Pro,  
OTHER INFORMATION: or all Lys.  
US-10-301-488A-55

Query Match  
Best Local Similarity 6.3%; Score 8; DB 14; Length 140;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

55 VAEKTEQ 62  
Db 55 VAEKTEQ 62

RESULT 15  
US-10-445-366-17  
Sequence 17, Application US/10445366  
Publication No. US20040014142A1  
GENERAL INFORMATION:  
APPLICANT: Vannechelen, Eugene  
APPLICANT: Vanderstichele, Hugo  
APPLICANT: Van De Voorde, Andre  
TITLE OF INVENTION: Differential Diagnosis of Neurodegeneration  
FILE REFERENCE: 11362.0029.DVUS01 (INNS029--1)  
CURRENT APPLICATION NUMBER: US/10/445,366  
CURRENT FILING DATE: 2003-05-22  
PRIOR APPLICATION NUMBER: US 09/720,707  
PRIOR FILING DATE: 2000-12-29  
PRIOR APPLICATION NUMBER: PCT/EP 99/04483  
PRIOR FILING DATE: 1999-06-29  
PRIOR APPLICATION NUMBER: 98870148-8  
PRIOR FILING DATE: 1998-07-03  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: Patentin version 3.2  
SEQ ID NO 17  
LENGTH: 140  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-445-366-17

Query Match  
Best Local Similarity 6.3%; Score 8; DB 15; Length 140;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

55 VAEKTEQ 62  
Db 55 VAEKTEQ 62

Search completed: May 20, 2004, 14:52:13  
Job time : 44 secs

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